LIMA LOCOMOTIVE WORKS
INCORPORATED

LIMA, OHIO, U. S. A.

GEARED LOCOMOTIVE

Class 60-3 TRUCK **Dept.** DRAWING ROOM

CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE
491	3336	4-15-29
new Piston valve	cyls. applied	12-18-31

FORM LED 60

491
60-3
3336

ADDITIONS AND CHANGES

ADDITIONS

DATE	Page	ITEMS	Check
4-16-'29	13	61	D
"-17-'29	6	21	"
" " "	2	45	"
" " "	27	43	"
" 23 "	18	52-41	"
" " "	15	1 To 8-12-14-16 To 29-33-36 To 41-45 To 49	"
" 26 "	12	60	"
" " "	16	22-23	"
" " "	13	45	S
" " "	10	1	S
5-10-'29	13	19	20
5-13-'29	4	9	

ADDITIONS

DATE	Page	ITEMS	Check

CHANGES

DATE	Page	ITEMS	Check
4-16-'29	14	16	Eo
"-17-'29	13	53	"
" " "	14	49	"
" " "	28	54-55	"
" " "	22	19	"
" " "	27	41-51-52-53	"
" " "	13	18	"
—	~~8~~	/	
4-17-'29	9	44-45	"
" " "	27	14-46	"
4-26-'29	13	7	"
"-30-"	21	20-22	"
5-10-29	27	24	"

LED 60-1

Check	No.	DRAWING	FORGINGS	CASTINGS—PATTERN NUMBERS			
			Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron

LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED 100-A ParPCo

SHEET NO. 2 TOTAL NO. SHEETS 2 SOLD T

LOCO. NO. 3336 CYL. SIZE 11"x12"

ESTIMATE NO. NONE

DELIVERY PROMISED

SALES ORDER NO. R 16065

ISSUED 12-8 1944

COMPLETED 19

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	INSPECTOR'S CHECK

CO491

DECEMBER 19, 1939

order covering three
locomotive to replace

us practice, I am attaching
he customer, of 643-A-5004
315-A-5016 showing

he way the cylinder cocks, steam
to each steam chest are piped
iston valve cylinders.

designed to replace the slide
d steam bracket and take the
s, new studs and bolts are
A little chipping and adjusting
e part of the cylinder frame
chest and two holes set in 5/8"

with old crossheads and new
valve motion. Of course,
djusted for proper clearance.
n cylinder, nor the piston
dy to go. After the new
e whole engine reassembled,
he valves using the port
lead in full gear forward

ould take old keyways in
minus angular advance behind
sion piston valves. These
quently when connecting the
blade on all three cylinders

attached to the top of
pump bracket being furnished
derived from valve stem
connecting rod should be

LIMA LOCOMOTIVE WORKS, INCORPORAT

Form ED-100 6M 3-39 45122

732

1939

19

INSPECTOR'S CHECK

MR. S. W. BAKER DECEMBER 19, 1939

J. NEILS LUMBER COMPANY
SHAY LOCOMOTIVE #3336
REPAIR ORDER - R-15732

Referring to the above repair order covering three piston valve cylinders complete for above locomotive to replace his old slidi~~ng~~ valve cylinders.

In accordance with our previous practice, I am attaching prints in duplicate, for transmission to the customer, of 643-A-5004 showing the cylinder piping arrangement and 313-A-5016 showing Cylinder frame.

The piping arrangement shows the way the cylinder cocks, steam chest drains and oil pipes from lubricator to each steam chest are piped as well as the general arrangement of the piston valve cylinders.

The piston valve cylinders are designed to replace the slide valve cylinders exactly. They go on the old steam bracket and take the cylinder frame the same as the old cylinders, new studs and bolts are provided to fasten them securely in place. A little chipping and adjusting is required as shown on print and the circle part of the cylinder frame has to be flattened off 1" to clear steam chest and two holes set in 5/8" as shown on print 313-A-5016.

The new piston rods connect up with old crossheads and new valve stem crossheads connect up with old valve motion. Of course, when these are connected up they should be adjusted for proper clearance. No work is required on the new piston head in cylinder, nor the piston valves, these are assembled complete and ready to go. After the new eccentrics are applied to crank shaft and the whole engine reassembled, it will be necessary for customer to reset the valves using the port marks scribed on valve stems obtaining 1/32" lead in full gear forward and backward motion.

The new eccentrics furnished should take old keyways in crank shaft and this should locate them 90° minus angular advance behind their respective cranks for the inside admission piston valves. These eccentrics are all right hand pattern, consequently when connecting the eccentric blade to link, the forward motion blade on all three cylinders is toward back of engine.

The present Manzel oil pump is attached to the top of rear steam chest as shown on print, a new oil pump bracket being furnished on this order, the drive for the oil pump is derived from valve stem as shown on print and the length of oil pump connecting rod should be adjusted accordingly.

RBK:EM
CC- Mr. J. E. Dixon, Pres.

C0491 → Believe Red Sunbeam 101X or
101X-A.

Form ED 100-A ParPCo

LIMA LOCOMOTIVE WORKS, INCORPORATED

SHEET NO. 2 TOTAL NO. SHEETS 2 SOLD TO J. NEILS LUMBER COMPANY

LOCO. NO. 3336 CYL. SIZE 11" x 12" KLICKITAT, WASHINGTON SALES ORDER NO. R 16065

ESTIMATE NO. NONE SHIP TO AS ABOVE- GLENWOOD, WASHINGTON ISSUED 12-8 1944

DELIVERY PROMISED MANIFEST NO. COMPLETE PARTIAL COMPLETED 19

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD NO.	CONSTRUCTION NOTES	PATTERN OR SKETCH NO.	OLD PATTERN NO.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEP'T	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1			PLEASE CHANGE ITEM #2 ON SHEET #1 TO READ AS FOLLOWS. ADD ITEM #3.											
2	3		COUPLING RING GREASE COLLARS	742-B-5034	BAR IRON	2 3/4" DIA. x 1" LONG								
3		3	1/8" STD. ZERK GREASE FITTINGS											
4														
5														
6														
7														
8			AA-1 MRO											
9														
10														
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31														
32														

LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED-100 6M 3-39 45122

SHEET No. 2 TOTAL No. SHEETS ______ SOLD TO J. Neils, Lumber Co

LOCO. No. 3336 CYL. SIZE 11"x12"

SALES ORDER No. R 15732

ESTIMATE No. 9670 Revised SHIP TO Them At Klickitat, Wash

ISSUED 10-26 1939

DELIVERY PROMISED ______ MANIFEST No. ______ COMPLETE / PARTIAL ______ COMPLETED ______ 19__

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD No.	CONSTRUCTION NOTES	PATTERN OR SKETCH No.	OLD PATTERN No.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEPT.	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1		36	Steam Chest Head Stud Nuts		$\frac{3}{4}$" Std									
2		24	" " Bracket Studs		1"x3$\frac{3}{4}$" Fin. Studs									
3		24	" " " " Nuts		1" Std									
4		3	" " " "		$\frac{3}{4}$"x2$\frac{7}{8}$" Fin Studs									
5		3	" " " " "		$\frac{3}{4}$" Std									
6														
7		~~1~~	~~Eccentric - Left~~	~~392-A-5102~~	~~C.I.~~	~~39-44~~								
8		2	" - Right	" "	C.I.	39-45								
9		1	Split Eccentric - Top	392-A-5103	C.I.	39-42								
10		1	" " - Bottom	" "	C.I.	39-43								
11		2	" " Studs	" "	1"x4"									
12		2	" " Keys	" "	$\frac{5}{16}$"x1$\frac{1}{8}$"x2$\frac{1}{8}$"									
13		3	Eccentric Keys		$\frac{7}{8}$"x$\frac{11}{16}$"x5$\frac{1}{2}$"									
14														
15														
16														
17														
18														
19			ORDERED BY TELEGRAM—SPECIAL RUSH											
20														
21														
22														
23			THIS is a SPECIAL RUSH Order											
24			and requires immediate attention.											
25														
26														
27														
28														
29														
30														
31														
32														

Form ED-100 6M 3-39 45122

LIMA LOCOMOTIVE WORKS, INCORPORATED

SHEET No. 1 TOTAL No. SHEETS 1 SOLD TO J. Neils Lumber Co.
LOCO. No. 3336 CYL. SIZE 11 X 12" SALES ORDER No. R 15732
ESTIMATE No. 9670 revised. SHIP TO Them at Klickitat Wash. ISSUED 10-26 1939
DELIVERY PROMISED MANIFEST No. COMPLETE PARTIAL COMPLETED 19

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD No.	CONSTRUCTION NOTES	PATTERN OR SKETCH No.	OLD PATTERN No.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEPT.	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1	2		Piston Valve cylo. complete	314-A-5024	C.I.	31-279D								
2	1		" " " "	"	C.I.	31-279E								
3		3	PISTON VALVES COMPLETE	943-A-5006	PUR. FROM HAMMACK									
4		~~3~~	VALVE STEMS	942-A-5092				x	x	x				
5		~~3~~	" " DOWELS	" "	$\frac{1}{4}$" DIA X $\frac{1}{2}$"									
6		~~3~~	" " NUTS	" "	$1\frac{1}{8}$" CASTLE									
7		~~3~~	" " COTTERS	" "	$\frac{5}{16}$" x $2\frac{1}{4}$"									
8		~~3~~	" " KEYS	8006 #2										
9		~~3~~	" " COTTERS	" "	$\frac{3}{16}$" x 1"									
10		~~2~~	" " X-HEADS-RIGHT	942-A-5091	C.I.	94-354								
11		~~1~~	" " " -LEFT	" "	C.I.	94-355								
12		6	PISTON VALVE BUSHINGS	322-A-5074	C.I.	32-604								
13		1-LB	VULCABESTON PACKING	$1\frac{3}{16}$" I.D. - $2\frac{1}{4}$" OD										
14														
15		3	STEAM CHEST HEADS - TOP	322-A-5075	C.I.	32-605								
16		3	" " " - BOTTOM	322-A-5076	C.I.	32-606								
17		2	" " " - CASING	322-A-5082	STEEL PLATE									
18		2	" " " " TAP BOLTS	314-A-5024	$\frac{5}{8}$" x $\frac{5}{8}$"		5/8 x 2"							
19														
20		6	PEEP HOLE PLUGS	662-A-5010	STICK BRASS									
21		6	STEAM CHEST McKIM GASKETS	314-A-5024	$\frac{3}{4}$" I.D. - $1\frac{1}{2}$" O.D. - $\frac{1}{16}$" THICK						$11\frac{1}{2}$ ✓ $5\frac{1}{2}$ ✓ 17 ✓ 7 24" ✓			7 12 5
22		6	" " TAP BOLTS		$\frac{3}{4}$" x $2\frac{1}{2}$"									
23														
24		3 SET	CYL. LAGGING	314-A-5024	TO SUIT									
25		3 "	CYL JACKET	" "	" "									
26		30	" HEAD STUDS	314-A-5024	$\frac{7}{8}$" x 3"									
27		30	" " " NUTS		$\frac{7}{8}$" STD.									
28		36	" FRAME STUDS		1" X 3"								120 60 60	
29		36	" " " NUTS		1" STD									
30		36	STEAM CHEST HEAD STUDS		$\frac{3}{4}$" x 3"		$\frac{3}{4}$ x 4							
31														
32														

Cancelled 10/20

3"

Shipped 12-18-39

ORDERED BY TELEGRAM—SPECIAL RUSH

THIS is a SPECIAL RUSH Order and requires immediate attention.

Form ED-100 6M 3-39 45122

LIMA LOCOMOTIVE WORKS, INCORPORATED

SHEET No. 4 TOTAL No. SHEETS ____ SOLD TO J. Neils Lumber Co.

LOCO. No. 3336 CYL. SIZE 11" × 12" SALES ORDER No. R 15732

ESTIMATE No. 9866 SHIP TO Them at Klickitat Wash. ISSUED 10-26 1939

DELIVERY PROMISED ____ MANIFEST No. ____ COMPLETE PARTIAL ____ COMPLETED ____ 19__

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD No.	CONSTRUCTION NOTES	PATTERN OR SKETCH No.	OLD PATTERN No.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEPT.	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1	1		Smoke box.	138 K 5006	3/8" × 44½" × 14'2" Tank steel.									
2		1	" " ring	"		14 A 5000								
3		1	" " liner	"	¼" × 39¼" × 44"									
4			note:- Donot apply holes in rear end for fastening to boiler											
5			All other holes shown on card applied.											
6														
7		1	Smoke box front	A-12970 L-3	½ × 46½" DIA. flange steel									
8		1	" " " door	"	3/8" × 36" DIA. "									
9		1	" " " " Hinge	752 A 5079		75 A 5000								
10		1	" " " " "	"		75 A 5003								
11		1	" " " " Lug	"	C.S.	75-25								
12		1	" " " " "	"	C.S.	75-26								
13		2	" " " " pins	"	¾ × 3½"									
14		15	" " " " buttons	"	C.I.	75-455								
15		15	" " " " studs	A-12970 L-3	¾ × 4½"									
16		30	" " " " " nuts	" ¾" std.										
17		22	" " " bolts	¾" × 3½"										
18		22	" " " " nuts	¾ std.										
19														
20			Send along the following rivets loose for riveting smoke box to boiler											
21														
22	36		Rivets 7/8" × 2½"											
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														

ORDERED BY TELEGRAM—SPECIAL RUSH

THIS is a SPECIAL RUSH Order and requires immediate attention.

LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED-100 6M 3-39 45122

SHEET No. 3 TOTAL No. SHEETS ____ SOLD TO J. Neils, Lumber Co
LOCO. No. 3336 CYL. SIZE 11"X12"
SALES ORDER No. R 15732
ESTIMATE No. 9670 Revised SHIP TO Them At Klickitat, Wash
ISSUED 10-26- 1939
DELIVERY PROMISED ____ MANIFEST No. ____ COMPLETE PARTIAL ____
COMPLETED ____ 19__

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD No.	CONSTRUCTION NOTES	PATTERN OR SKETCH No.	OLD PATTERN No.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEPT.	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1			~~ALTERNATE~~											
2														
3		3	PISTONS COMPLETE	652-A-5135	C.I.	65-99								
4		6	" RINGS	653-F-5000	C.I	65-6								
5		3	" RODS	652-A-5123	$2\frac{3}{16}$"X27"					$2\frac{1}{2}$ ✓				
6		3	" " NUTS		2"X$1\frac{1}{4}$" THICK					$1\frac{1}{2}$ ✓				
7		3	" STUFFING BOX	652-A-5055	C.I	65-41				$3\frac{1}{2}$				
8		3	" " " GLAND	652-A-5059	C.I.	65-42								
9		3	" VIBRATING CUPS	652-A-5082	C.I	65-46				7 1/2				
10		3	" PACKING SPRINGS		#13									
11		3	" " " WASHERS	652-A-5167	C.I	65-45				3/4				
12		3	" SWAB CUPS	652-A-5091	BRASS	65-26								
13		3 Set	(6-RE) PISTON ROD PACKING	652-A-5153		P. & M				6 3/4				
14		12	PISTON PACKING STUDS	7758 #4-LINE	$\frac{5}{8}$"X$6\frac{11}{16}$"									
15		24	" " " NUTS	" "	$\frac{5}{8}$"X$\frac{5}{8}$" THICK									
16														
17		3	CYL. HEADS	322-A-5033	C.I.	32-37								
18		3	" " TAP BOLTS	" "	$\frac{1}{2}$"X$\frac{5}{8}$"									
19														
20		3	CYL. HEAD CASING	322-~~A~~ C-5034	STEEL PLATE									
21														
22		3	VALVE STUFFING BOX GLAND	652-A-5116	C.I.	65-464								
23		9	" " " " STUDS		$\frac{5}{8}$"X$6\frac{3}{4}$"	Std								
24		18	" " " " " NUTS	" "	$\frac{5}{8}$"X$\frac{9}{16}$" THICK									
25														
26														
27														
28														
29														
30														
31														
32														

$2\frac{1}{2}$ ✓

ORDERED BY TELEGRAM—SPECIAL RUSH

THIS is a SPECIAL-RUSH Order
and requires immediate attention

LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED 100-A ParPCo.

SHEET NO. 6 TOTAL NO. SHEETS ____ SOLD TO J. Neils Lumber Co.
LOCO. NO. 3336 CYL. SIZE 11 x 12" ____ SALES ORDER NO. R 15732
ESTIMATE NO. 9670 revised SHIP TO ____ ISSUED 11-13 1939
DELIVERY PROMISED ____ MANIFEST NO. ____ COMPLETE / PARTIAL ____ COMPLETED ____ 19 ____

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD NO.	CONSTRUCTION NOTES	PATTERN OR SKETCH NO.	OLD PATTERN NO.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEP'T	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1			Pls. add to order:											
2														
3		3	Cyl. cock eye bolts	282D5005	forged.	✓								
4		3	" " " " nuts	½" std.		✓								
5														
6		1	Oil pump bracket	592A5033	forged.	✓								
7		1	" " " stud	5/8" × 2¼" std.		✓								
8		1	" " " " nut	5/8" std.		✓								
9		1	" " " "	¾" × 4" std.		✓								
10														
11														
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32														

FORM GO-107 3M 12-33—NGP. CO.

LIMA LOCOMOTIVE WORKS, INCORPORATED
Lima, Ohio

COPY

E. N. Pierce:

August 27, 1934.

FILE: 150.830A.23447

J. NEILS LUMBER COMPANY

In connection with Mr. Hammack's order number 23447 covering one drawhead to pattern 37-1 card 373-A-5019, I quote below Mr. Hammack's letter to me of August 20:

" Referring to my order #23447 covering an order from the J. Neils Lumber Company, Libby, Montana, for one drawhead for their Shay locomotive shop number 3336, wish to advise that I shipped them drawhead pattern 37-1 card 373-A-5019.

This was returned as there was a misunderstanding as to what they wanted in view of their having made some changes. The drawhead on front end of Shay 3336 is pattern 37-1 but on the rear end they now have pattern 37-414. Please notify the Engineering Departmentso their records can be changed.

Owing to the drawhead pattern 37-1 having been returned, please have credit memorandum issued for the amount charged, on order 23447 and forward to me as soon as possible.

The pattern 37-1 drawhead which J. Neils Lumber Company returned has been received and put back into Seattle Stock. Please advise Mr. Hofmann."

In connection with the latter part of this letter, please let me have credit memorandum to cover.

I am sending Mr. Hofmann copy of this letter so that his records can be changed accordingly.

EK:MAP

S.W. BAKER

√COPY Mr. L. J. Hofmann
√COPY Mr. R. B. Krueger

LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED 100-A ParPCo.

SHEET NO. 5 TOTAL NO. SHEETS ____ SOLD TO J. Neils Lumber Co.
LOCO. NO. 3336 CYL. SIZE 11 X 12" ____ SALES ORDER NO. R 15732
ESTIMATE NO. 9670 revised SHIP TO ____ ISSUED 11-1 1939
DELIVERY PROMISED ____ MANIFEST NO. ____ COMPLETE / PARTIAL ____ COMPLETED ____ 19__

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD NO.	CONSTRUCTION NOTES	PATTERN OR SKETCH NO.	OLD PATTERN NO.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEP'T	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1			Cancel items 4 to 11 inclusive on sheet 1 and				✓							
2			add the following:											
3														
4		3	Valve stems	942 B 5092	$1\frac{3}{16}$" X $32\frac{13}{32}$ FIN.		✓							
5		3	" " dowels	"	¼"D. x ½"		✓							
6		3	" " nuts	"	$1\frac{1}{8}$" castle		✓							
7		3	" " cotters	"	$\frac{5}{16}$" x 2¼"		✓							
8		3	" " keys	8006 #2			✓							
9		3	" " cotters	"	$\frac{3}{16}$" x 1"		✓							
10		2	" " Xheads	942 A 5096	C.S.	94-388	Right							
11		1	" " "	"	C.S.	94-388	Left							
12														
13														
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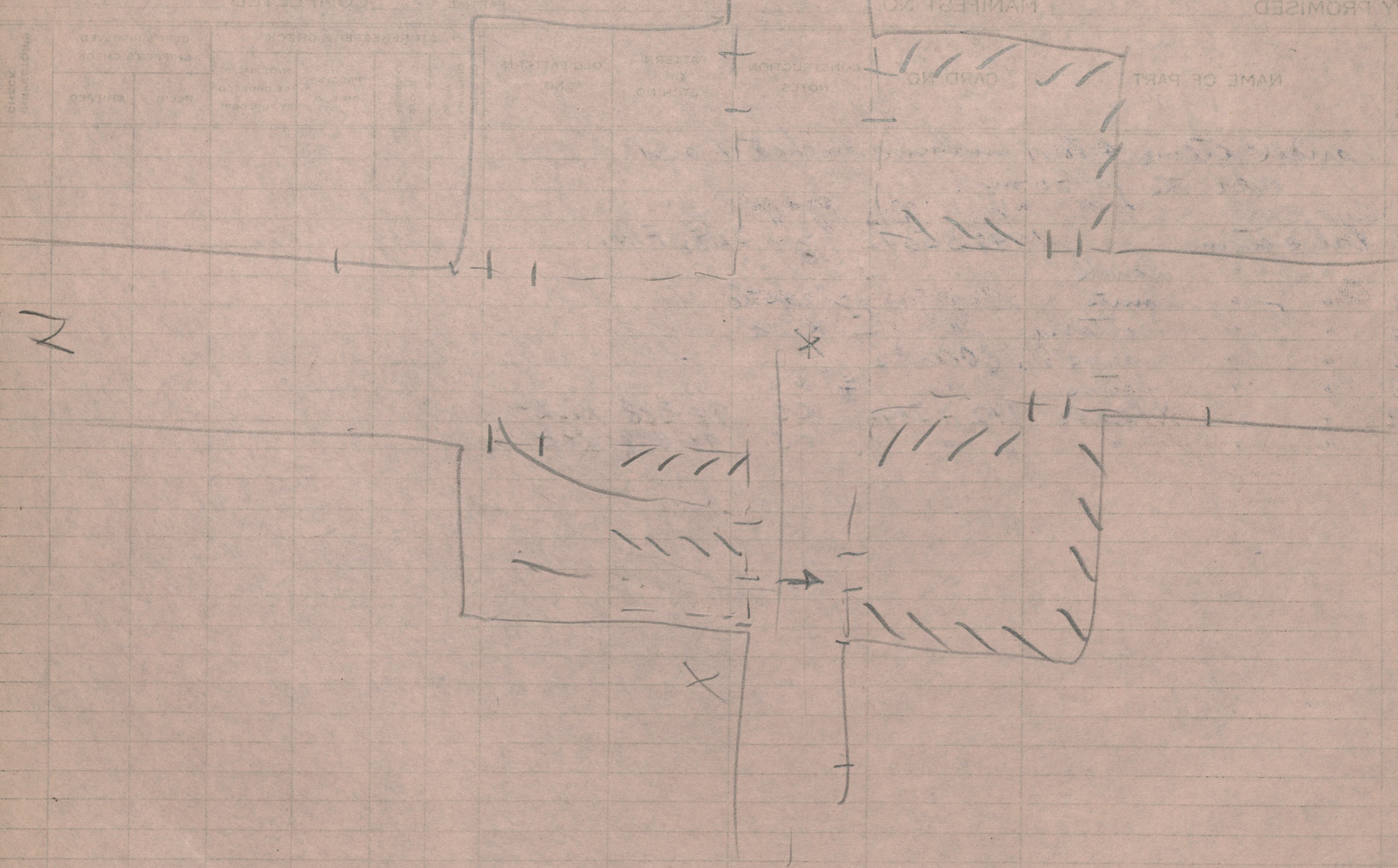

LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED 100 ParPCo

SHEET NO. 1 TOTAL NO. SHEETS 1 SOLD TO J. NEILS LUMBER COMPANY

LOCO. NO. 3336 CYL. SIZE 11" X 12" KLICKITAT, WASHINGTON SALES ORDER NO. R 16065

ESTIMATE NO. NONE SHIP TO AS ABOVE - GLENWOOD, WASHINGTON ISSUED 12-6 1944

DELIVERY PROMISED ______ MANIFEST NO. ______ COMPLETE PARTIAL ______ COMPLETED ______ 19 ______

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD NO.	CONSTRUCTION NOTES	PATTERN OR SKETCH NO.	OLD PATTERN NO.	STOREKEEPER'S CHECK: DEL'D TO SHIPPING DEP'T	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	DEPT'S INVOLVED SHIPPER'S CHECK: REC'D	SHIPPED	INSPECTOR'S CHECK
1														
2	3		COUPLING RING OIL CELLARS	742-~~A~~ B-5034	BAR IRON 2 3/4" DIA. X 1" LONG ~~C.I.~~	~~74-18~~								
3		3	1/8" STD. ZERK FITTINGS.											
4	2		CONNECTING ROD GREASE CUPS - COMPLETE											
5		2	GREASE CUPS	592-A-5010	BRASS	59-29								
6		2	" " FOLLOWERS	"	"	59-30								
7		2	" " SCREWS	"	STEEL	1" HEX. X 1"								
8		2	" " SPRINGS	"	.07" STEEL WIRE									
9		2	" " LOCKS	"	1/32" SHEET BRASS									
10		2	" " " RIVETS	"	3/16" DIA.									
11		2	" " ~~BASES~~ CAP SCREWS	~~592-A-5017~~ "	~~BRASS~~	~~59-31~~ 3/8" DIA. X 3/4"								
12		2	" " BASES	592-A-5010	BRASS	59-31								
13														
14														
15														
16														
17														
18			AA-1 MRO											
19														
20														
21														
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LIMA LOCOMOTIVE WORKS, INCORPORATED

Form ED 100-A ParPCo

SHEET NO. 2 TOTAL NO. SHEETS 2 SOLD TO J. NEILS LUMBER COMPANY
KLICKITAT, WASHINGTON
LOCO. NO. 3336 CYL. SIZE 11"X12"
SALES ORDER NO. R 16065
ESTIMATE NO. NONE
SHIP TO AS ABOVE — GLENWOOD, WASHINGTON
ISSUED 1-3 1945
DELIVERY PROMISED
MANIFEST NO.
COMPLETE PARTIAL
COMPLETED 19

ITEM	ASSEMBLED UNITS	COMPOSING UNITS	NAME OF PART	CARD NO.	CONSTRUCTION NOTES	PATTERN OR SKETCH NO.	OLD PATTERN NO.	STOREKEEPER'S CHECK				DEPT'S INVOLVED SHIPPER'S CHECK		INSPECTOR'S CHECK
								DEL'D TO SHIPPING DEP'T	STOCK ASSIGNED	PROCESS ON S. O.	MATERIAL TO BE ORDERED BY PUR. DEPT.	REC'D	SHIPPED	
1														
2			PLEASE CANCEL ITEMS #2 AND #3 ON SHEET #1 OF THIS ORDER.											
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13			4A-1 MRO											
14														
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16														
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ADDITIONS AND CHANGES

ADDITIONS				ADDITIONS				CHANGES			
DATE	Page	ITEMS	Check	DATE	Page	ITEMS	Check	DATE	Page	ITEMS	Check
4-11											
"											"
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436

LED 60-1

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	CASTINGS—PATTERN NUMBERS Cast Steel	CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal. Iron
		GROUP 10—ASH PAN								
0	1	~~ASH~~ OIL PAN	1	103A5041						
0	2	" Pan Material Bill	1 SET	10 M.O. 5045						
	3	" " Hopper								
	4	" " Slide								
	5	" " Door Frame								
	6	" " Slide Frame								
	7	" " Door Links								
	8	" " Damper Rigging								
	9	" " " Bell Crank								
	10	" " " " " Fulcrum								
0	11	" " " Hinge	2	103A5041	3½" x 3½" BUTT.					
	12	" " " " Lug								
	13	" " " " Bar								
	14	" " " Lift—Front								
	15	" " " " —Rear								
0	16	" " " Lug	1	103A5041		10 J5001	—	—	—	—
	17	" " " "								
	18	" " " Rod Jaw								
	19	" " " " "								
	20	" " Netting Frames								
	21	" " Slide Rigging								
	22	" " " Rod								
	23	" " " Jaw								
	24	" " Shaft Bearing								
	25	" " Cleaning Door Hinge								
	26	" " Bell Crank Bracket								
	27									
	28									
	29									
	30	**GROUP 11—AXLES**								
0	31	AXLE	6	112A5020	SENT 1 - R. 20038 - 8-5-1946 - H.C.H.	112A5020	—	—	—	—
	32	"								
	33	**GROUP 12—BELL**								
0	34	BELL	1	122A5016			—		12-1	
0	35	" Frame	1	12540 LINE 2			12-4-A			
0	36	" " Base	1	122A5013			12-152			
0	37	" Yoke	1	123A5000			12-5			
0	38	" " Nut	1	122A5011			12-6			
0	39	" " Pin	1	12540 LINE 2	BAR STOCK		—			
0	40	" Crank	1	122A5010			12-7	C.S. FOR FUTURE		
0	41	" Tongue	1	122A5017			—	12-2		
0	42	" " Fulcrum	1	122A5018			12-3			
	43	" Ringer Bracket	—							
0	44	" Rope ~~Details~~ SCREW EYE	3	TO SUIT ERECT. SHOP	PURCHASED	—	—	—	—	—
	45	" " Sheave								
	46	" " " Chair								
	47	" " " Frame								
0	48	" " Thimble	1	122A4	BAR STOCK	Z	Z	Z	Z	Z
0	49	" " " Washer	1	"	"					
0	50	" Ringer	1	GOLLMAR - AIR OPERATED - PURCHASED			—	—	—	—
	51									
	52	**GROUP 13—BOILER**								
0	53	Boiler Plan	1	138K5006	BOILER CODE TO CONFORM TO A. S. M.E. + BRITISH [illegible]					
	54	" Sections	—							
g	55	" Material Bill	1 SET	13 M.O. 5038-A		—	—	—	—	—
g	56	" Bracing List	1 "	138K5006		—	—	—	—	—
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
0	1	Boiler Brace Rod Ends	22	11754 SET 12		117F201	Z	Z	Z	Z
0	2	“ “ “ “	4	310D165		310S104				
0	3	“ “ “ “	2	11754 SET 2		117F202				
	4	“ “ “ “	Z							
	5	“ “ “ “								
0	6	“ “ “ Lugs	4	310D265		310S29	—	—	—	—
	7	“ “ “ “								
	8	“ “ “ “								
	9	“ “ “ “								
0	10	“ “ “ Jaws	22	310D148		310S64	Z	Z	Z	Z
466 0	11	“ “ “ “	4	310D265		310S186				
0	12	“ “ “ “	2	310D164		310S105				
	13	“ “ “ “	Z							
	14	“ “ “ “								
	15	“ “ “ “								
	16	“ Sling Stay								
	17	“ “ “								
0	18	“ Throat Brace	6	117.66		117F215	—	—	—	—
	19	“ “ “	Z							
	20	“ Crown Bars								
	21	“ “ Roof Irons								
0	22	“ Stay Bolt	190	142A5028		142A5028	Z	Z	Z	Z
0	23	“ “ “	464	142B5028		142B5028				
0	24	“ Radial Stay	120	11721 LINE 2		11721 LINE 2				
0	25	“ “ “	51	11745		11745				
0	26	“ “ “	16	TATES STYLE D	PURCHASED					
0	27	“ ~~Cross Stay~~ SLEEVES	16	“ “ H						
0	28	“ ~~Tee Bar~~ CAPS	16	“ “ D						
0	29	“ TEE“BARS	2	22" LONG	6"x1"x5¼"x1¼"					
0	30	“ “ “	2	19½" “						
0	31	“ “ “	2	10" “						
0	32	“ “ “	2	11½" “						
0	33	“ RADIAL STAY	17	1⅛" HOLLOW-12 U.S. STD THRD'S.						
0	34	“ Mud Ring	1	143A5030		—	—	14-161	—	—
0	35	“ Tube Sheet Ring	1	142A5029		142A5029	—	—	—	—
0	36	“ “ “ Studs	6	″		—				
0	37	“ Smoke Box Ring	1	138K5006		14A5000	—	—	—	—
	38	“ “ “ “								
0	39	“ Tube (small)	82	2" O.D. #12 B.W.G. x 9'-0" LONG			Z	Z	Z	Z
0	40	“ Flue (large)	10	5⅜" O.D. #9 B.W.G. x 9'-0¾" LONG.						
	41	“ Combustion Tubes	—							
0	42	“ Tube Setting	1 SET	11632 STYLE 4			Z	Z	Z	Z
0	43	“ Flue “	1 “	142X196	FOR LENGTH SEE BOILER.					
0	44	“ Test Plate	1	420D449						
0	45	“ WATER LINE MARKER	1	142B5022	STICK BRASS	—	—	—	—	—
	46	**GROUP 15—BOLTS AND NUTS**								
	47									
	48	**GROUP 18—BRACKETS**								
0	49	Air Gauge Bracket	1	182A5106	PLATE	—	—	—	—	—
0	50	Steam Gauge Bracket	1	182A5101		Z	18-16	—		
0	51	Bottom Bracket	1	184A5013			—	18-3	Z	Z
0	52	“ “ Caps	4	182A5029			—	18-32		
0	53	“ “ Bearing—Top	4	182C5036			18-29	Z		
0	54	“ “ “ —Bottom	4	182B5041			18-30			
0	55	“ “ “ Wedge	4	182A5015			18-31			
0	56	“ “ Wedge Screw	4	182A5022		182A5022	Z	Z	Z	Z
0	57	“ “ “ “ Nut	4	″	BAR STOCK	—				
0	58	“ “ “ “ Cap	4	182B5075		182B5075				
0	59	Steam Bracket	1	187A5005		—	18-363			
	60	“ “ —Back	—							
0	61	“ “ Brace	1	182A5079		182A5079	—	—	—	—

LED 60-3

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE EQUIPMENT								
0	1	BRAKE CYLINDER	1	203E5006		—	20-118			
0	2	" " BRACKET	1	202A5210		202A5210	—			
0	3	" " Head	2	202A5094		—	20-60			
0	4	" " BRACKET	1	202B5210		202B5210	—			
0	5	" " Stuff. Box Gland	2	202A5088		—	20-65			
0	6	" " BRACKET BLOCKS	1	202A5210	BAR STOCK	1¼"×5¾"×6"	—			
0	7	" Piston	2	202A5113		—	20-47			
0	8	" CYL. BRACKET BLOCKS	1	202B5210	BAR STOCK	1¼"×5¾"×6"	—			
0	9	" " Rings, Mat'l For	4	653D5002	Pot Pattern	—	65-25			
0	10	" " " " "	2	652D5156	" "	—	65-107			
	11	" " " " "			" "					
	12	" " " " "			" "					
0	13	" " Rod—Front	1	202B5029	40"	202B5029				
0	14	" " " —Rear	1	202A5029	46½"	202A5029				
x36 0	15	" " "	2	202A5169		202A5169				
0	16	" " " Jaw	2	"		"				
0	17	" Hollow Piston Rod	1	24"×2$\frac{5}{16}$" DIA.	TURN FROM 2" PIPE					
0	18	" " " "	1	30"×2$\frac{5}{16}$" DIA.						
	19	" Strut								
	20	" "								
0	21	" EQUALIZING Reservoir Blocks + SUPPORTS	2	TO SUIT ERECT. SHOP - BLOCKS MADE OF WOOD.			—	—	—	—
0	22	" " Support	2	202F5025		—	—	20-111	—	—
	23	" " "								
	24	" " "								
0	25	" " " Strap	2	202F5025		134F1210	—	—	—	—
0	26	" Pump Bracket	1	202F5021		—	—	20-614	—	—
0	27	" " " FILL BLOCK	1	488C5042		2"×5¼"×22¾"	—	—	—	—
	28	" Cyl. Lever Fulcrum	—							
0	29	" Equipment	1 SET	M.O. 2679 E	EXCEPT 1-8½" C.C. PUMP + SD5 GOVERNOR INSTEAD OF 1-9½" PUMP + SD4 GOVERNOR					
0	30	" Valve	1	203A5010	#5	—	—			
0	31	" " Base	1	202A5138			20-38			
0	32	" " Cap	1	202A5137			20-39			
0	33	" " Slide Valve	1	202A5133			20-40			
0	34	" " Stem	1	202A5136	BAR STOCK		—			
0	35	" " Handle	1	202A5139					20-44	
0	36	" " " Latch	1	202A5134	BAR STOCK.					
0	37	" " Stuffing Box	1	202A5132	STICK BRASS					
0	38	" " " " Nut	1	"	" "					
0	39	" " " " Follower	1	"	" "			—		
0	40	" " Bracket	1	202A5228				20-659		
x36 0	41	" " ". Brace	4	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP.		—		
0	42	" Distributing Valve Bracket	2	B-13419 LINE 4		B-13419 LINE 4			—	
0	43	" Relief Valve	3	202A5140					20-71	
0	44	" " " —Top	3	"	STICK BRASS				—	
0	45	" " " —Base	3	"					20-73	
	46	" —Frame Body	—							
0	47	" Lever—Frame	1	488C5042		20 F5075				
0	48	" " "	1	"		20 H5075				
0	49	" " "	1	"		20 J5075				
0	50	" " "	1	"		20 E5060				
0	51	" " "	1	"		20 K5075				
0	52	" " " FILL BLOCK	—1	"		1½"×2"×10"	—	—	—	—
0	53	" " Fulcrum—Frame	1	488C5042		20 X5049				
0	54	" " " "	1	"		20 D5116				
0	55	" " " "	2	"		20 B5096				
0	56	" " Guides "	1	"		20 W5047				
0	57	" " " "	1	"		20 V5047				
0	58	" " " "	1	"		20 F5103				
0	59	" " " "	1	"		20 E5103				
0	60	" " " "	1	"		20 H5103				
0	61	" " " "	1	"		20 U5047				

1 1/4 1 5/16 9/16 2 9/16 3/4 5 3 5/16 × 1 1/8

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	CASTINGS—PATTERN NUMBERS Cast Steel	CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal. Iron
		GROUP 20—BRAKE (Cont.)								
✓	1	Brake Cylinder Bracket—Frame	1	488C5042	12"-30#-55 1/4" LONG-CHANNEL					
✓	2	“ “ “ “	1	"	3/4"×12"×55 1/4" PLATE					
✓	3	“ Rods “	1	"		20S5110				
	4	“ “ “	—							
✓	5	“ “ “	1	488C5042		20X5018				
✓	6	“ “ “	2	"		2 1/2"×2 1/2"×12"				
✓	7	“ “ “	4	"		5/8"×2 1/2"×12 1/2"				
✓	8	“ “ “	1	"	~~[illegible]~~	20Y5004				
	9	“ "	1	"		20Y5003				
✓	10	“ Beam— Truck	6	202A5212	9"-25#×63 3/4" LONG	—	—	—	—	—
✓	11	“ “ Fulcrum “	6	202A5163		—	—	20-87	—	—
✓	12	“ “ Safety Chain “	12	—		20∠5059	—	—	—	—
	13	“ Loop “	—							
✓	14	“ Hanger “	24	—		20H5027	—	—	—	—
✓	15	“ “ Lug “	12	202A5072		—	—	20-632	—	—
✓	16	“ Heads “	12	203A5009				20-22		
✓	17	“ Shoes “	12	202D5104	◇S PAT. 20-654 PURCHASED	—				
✓	18	“ Lever “	3	9809 SET 6		98-F-71				
✓	19	“ “ “	3	" "		98-F-107				
✓	20	“ “ “	3	" "		98-F-1.08				
	21	“ “ “	—							
✓	22	“ “ PINS “	21 ~~[illegible]~~	202C5016		202C5016				
✓	23	“ “ " “	6	202E5226		202E5226				
✓	24	“ Rod “	3	202A5037		202A5037				
✓	25	“ “ “	3	937A5030		20A5061				
✓	26	“ “ “	3	"		20A5062				
	27	“ “ “	—							
✓	28	Truck Bolster Lever Fulcrum	3	202A5054		—	—	20-625	—	—
	29	“ “ Stop Lug	—							
	30	**GROUP 21—BUMPERS**								
✓	31	End Timber Arrangement—Front	1	214D5025						
✓	32	“ “ “ —Rear	1	213D5040						
✓	33	“ “ Channels—Front	1	214A5025	} 12" 40# [102" LONG					
✓	34	“ “ “ —Rear	1	213D5040						
✓	35	“ “ Drawhead Blocks	2	"	4"×11"×20" WOOD BLOCKS.					
✓	36	Push Pole Pocket	4	212A5002		—	21-7	—	—	—
	37									
	38									
	39	**GROUP 22—CAB**								
✓	40	Cab	1	223H5009	PLATE					
✓	41	“ Material Bill	1 SET	22 M.O.5006-A						
	42									
	43									
	44	**GROUP 23—CAB DETAILS**								
✓	45	Cab Arm Rest	2	232D5032		—	—	—	—	—
	46	“ Joint Plate								
	47	“ Strap								
	48	“ Saddle Angle								
	49	“ “ Plate								
	50	“ Sash Fixture								
✓	51	“ Storm Window	1	232T5012		—	—	—	—	—
	52	“ “ “								
✓	53	“ “ “ Adjusting Bar	1	232A5010		3/16"×1"×10" LONG	—	—	—	—
	54	“ “ “ “ Plate	—							
✓	55	“ Awning	2	232A5035	PURCHASED	—				
✓	56	“ ~~Curtain~~ BRACKET	4	"		23A279				
✓	57	“ “ ~~Rod~~ "	2	"		23~~A~~B288				
	58	“ Door Fixture	—							
✓	59	“ “ “ Clamp	2	232A5019		—				
✓	60	“ “ “ “ Screw	2	232A5018		—				
✓	61	“ “ “ “ Slide Bar	2	232A5023		1/4"×3/4"×28"				

LED 60-5

2 3/4
3/4
1/2

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	CASTINGS—PATTERN NUMBERS Cast Steel	CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal Iron
		GROUP 23—CAB DETAILS (Cont.)								
0	1	Cab Door Fixture Rod	2	232 A5020		Z	Z	Z	Z	Z
0	2	" Ventilator	1	232 A5028	PLATE					
0	3	" " ~~Fixture~~ ADJ. STUD	1	"	$\frac{3}{8}$" STUD					
0	4	" " Handle	1	11145		111 F30				
0	5	" " " Hinge	1	"		111 F31				
0	6	" " " Latch	1	232 A5028	$\frac{3}{8}$" STUD.					
	7	" " Rod	—							
0	8	" Seat—Right	1	232A5034	} WOOD.	Z	Z	Z	Z	Z
0	9	" " —Left	1	"						
0	10	" " Back Support	2	"		$\frac{1}{4}$"×3"×24"	—	—	—	—
	11	" " Cushion	Z							
	12	" " Post								
	13	" " Hinge								
	14	" " Rod								
0	15	" Tool Box	1	A-11154						
0	16	" DOOR LOCKS	2	YALE NIGHT LOCK - RIM LATCH - PURCHASED.				—	—	—
	17									
	18									
	19									
	20	**GROUP 26—COCK AND VALVES**								
0	21	Air Sander Valve	2	$\frac{1}{4}$" GLOBE	CRANE #4	—	—	—	—	—
	22									
	23	Angle Valve	Z							
	24	" " Cap								
	25	" " Stem								
	26	" " Gland								
	27	" " Nut								
	28									
	29	Ash Pan Cock	—							
	30									
	31	Bell Ringer Valve	—							
	32									
0	33	Blower Valve (AT STEAM TURRET)	1	1" ANGLE - UNION OUTLET - CRANE #1813			—	—	—	—
0	34	" " ~~Cap~~ (AT OIL TURRET)	1	$\frac{3}{4}$" GLOBE - CRANE #4		—	—	—	—	—
	35	" " Stem	Z							
	36	" " Gland								
	37	" " Nut								
0	38	Blow Off Cock	1	$1\frac{1}{2}$" CRANE						
	39	" " " Cap	Z							
	40	" " " Plug								
	41	" " " Nut								
	42	" " " Washer								
	43	" " Extension								
	44	Blow-off Valve								
0	45	Injector Starting Valve	2	$1\frac{1}{2}$" ANGLE CRANE #1811 & $1\frac{3}{4}$" C.P. UNION						
	46	" " " Cap	Z							
	47	" " " Stem								
	48	" " " Gland								
	49	" " " Nut								
0	50	Brake Stop Valve—Steam	1	$\frac{3}{4}$" ANGLE MALE INLET & FEMALE OUTLET CRANE #1811						
0	51	" " " —Air	1	$1\frac{1}{4}$" " " " & UNION " " #1811						
	52	" " " —Inter.	—							
	53									
	54	Cinder Swipe Valve	—							
	55									
0	56	Cylinder Cock	6	$\frac{1}{2}$" CUTOUT COCK WITHOUT HANDLE WESTINGHOUSE #15213						
	57	" " Nut	Z							
	58	" " Shank								
	59	" " Valve								
	60	" " Cap								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Drip Valve Brake Exhaust Drain	—							
0	2	“ “ Check Pipe “	2	1/2" GLOBE	CRANE #4					
0	3	“ “ Exhaust “ “	1	1/2" CUTOUT COCK						
0	4	“ “ Steam Chest “	1	1/2" GLOBE	CRANE #4					
0	5	“ “ Water Gauge “	1	1/4" "	" #4					
	6									
	7	Drip Cock—Brake Exhaust Drain	—							
0	8	“ “ — “ “ “ —Air	1	1/4" AIR COCK						
	9	“ “ —Check Pipe Drain	—							
0	10	“ “ —Fuel Sprinkler Drain	1	1/4" AIR COCK						
0	11	“ “ —Siphon Drain	1	3/8" " "						
0	12	“ “ —Oil Heater Drain	1	3/4" CRANE #1811 & 3/4" IRON PIPE UNION						
0	13	Generator Valve	1	1/2" ANGLE CRANE #1811						
	14	“ “ Cap								
	15	“ “ Stem								
	16	“ “ Gland								
	17	“ “ Nut								
	18	OIL PIPE VALVE	1	1¼" GLOBE	CRANE #4					
	19	" TANK DRAIN. ~~Feed Cock~~	1	1¼" "	" #4.					
	20	Heater Valve	—							
	21	HOUSE BLOWER VALVE	1	3/4" GLOBE	CRANE #4	—	—	—	—	—
	22	Lubricator Valve	—							
	23	“ “ Extension	—							
0	24	Oil Burner Valves	1	1/2" GLOBE	CRANE #4					
0	25	“ Heater “	1	"						
0	26	“ Tank Blow-Back Valve	1	"						
0	27	“ “ Heater Valve	1	"						
0	28	Oil Cock	1	262A5003					26-34	
0	29	“ “ Cap	1	"					26-32	
0	30	“ “ Plug	1	"					26-33	
0	31	“ “ Spring	1	"	#11 WIRE					
	32	“ “ Washer								
0	33	SMOKE BOX DRAIN	1	1/2" CUTOUT COCK		—	—	—	—	—
	34	Plug Cock—Injector Check								
	35	“ “ Cap								
	36	“ “ Plug								
	37	“ “ Nut								
	38	“ “ Washer								
	39									
	40	Port Cock	—							
	41									
0	42	Siphon Valve	1	1½ ANGLE CRANE #1811		—	—	—	—	—
	43									
0	44	Sprinkler Valve	1	3/8" CRANE GLOBE #1801		—	—	—	—	—
	45	“ “ Cap								
	46	“ “ Stem								
	47	“ “ Gland								
	48	“ “ Nut								
0	49	DRIFTING VALVE	1	3/4" GLOBE	CRANE #4	—	—	—	—	—
	50									
0	51	Steam Gauge Cock	1	1/4" CYL. COCK LEVER HANDLE & 3/8" C.P. UNION			—	—	—	—
	52									
4	53	Steam Gauge Cock Extension	1	11464 STYLE 1	STICK BRASS	—	—	—	—	—
	54									
	55	Tire Sprinkler Valve	—							
	56									
	57	Through Valve								
	58	“ “ Cap								
	59	“ “ Stem								
	60	“ “ Gland								
	61	“ “ Nut								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)								
✓	1	Gauge Cock	3	3/4" NATHAN TYPE	272A1001 EXCEPT	3/4" P. TAP	—	—	—	—
	2	" " Valve								
	3	" " Cap								
	4	" " Stem								
	5	" " Gland								
	6	" " Nut								
	7									
	8									
	9	Gauge Cock Extension	—							
✓	10	" " Dripper	1	272A5006		—	27-38	—	—	—
	11									
	12									
✓	13	WATER GAUGE	1	#9 REFLEX ✓						
✓	14	" " Upper Fitting	1	3/4" NATHAN						
	15	" " " " Cap								
	16	" " " " Valve								
	17	" " " " Stem			THD. 3/4" P. SIZE					
	18	" " " " Gland			LENGTH TO SUIT ERECT. SHOP					
	19	" " " " Nut			" "					
	20	" " " " Washer								
✓	21	" " Lower Fitting	1	3/4" NATHAN						
	22	" " " " Cap								
	23	" " " " Valve								
	24	" " " " Stem								
	25	" " " " Gland								
	26	" " " " Nut								
	27	" " " " Washer								
✓	28	" " Cock Elbow	1	272B5003		—	—	—	27-4	—
✓	29	" " Lamp Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	30	" " Marker "								
	31	" " " " Clamp								
	32	" " "								
	33	Water Gauge Extension								
	34	Water Gauge Cock								
	35									
	36	**GROUP 28—COCK RIGGING**								
	37									
✓	38	Blow-off Cock Rigging	1 SET	A-11405			—			
✓	39	" " " Handle	1	732A5027			73-6			
✓	40	" " " Rod	1	3/8 PIPE TO SUIT ERECT. SHOP			—			
	41	" " " "	—							
r	42	" " " " Jaw	1	A-11405		114F4	—	—	—	
	43	" " " Lever	—							
	44	" " " " Fulcrum	—							
	45									
✓	46	Cylinder Cock Rigging	1 SET	282A5021		—			—	
✓	47	" " Eye Bolt	3	282F5005		282F5005			—	
✓	48	" " ~~Hand~~ Lever	6	282A5014					28-77	
✓	49	" " SHAFT HANDLE ~~Fulcrum~~	1	282A5006			28-2		—	
✓	50	" " Rod	1	282A5021	3/4" DIA. 78" LONG.		—		—	
✓	51	" " " Lever	3	282A5004			—		28-1	
	52	" " " Jaws	—							
	53	" " Valve Lever	—							
r	54	" " " " Connection	3	282B5019	3/16 x 3/4" BAR IRON	—	—	—	—	—
	55	**GROUP 30—CROSSHEAD**								
✓	56	Crosshead	3	302A5020			—	30-5	—	
✓	57	" Shoe	6	302B5021			~~30-6~~		30-6	
✓	58	" " Bolts	6	~~302A5020~~	302·A·5009 11/16 x 4 3/4					
✓	59	" Pin	3	7813 SET 4	302A5042.- 3-1 7/8" NUTS	6-3/16 x 2" SPRING COTTERS				
✓	60	" Key	3	302~~A~~5036 B	CHROME VANADIUM					
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER		314-A-5024	10/39					
0	1	CYLINDER (PISTON VALVE)	2	~~314B5004~~			~~31-2~~ 31-279-D			
0	2	“	1	“			~~31-3~~ 31-279-E			
0	3	“ Frame	2	15936 313A5016	{changed by Customer to suit P.V. cyls. 11/39		—	31-56		
0	4	“ “	1	“			—	31-56		
	5	**GROUP 32—CYLINDER DETAILS**								
0	6	Cylinder Head	3	322A5033		—	32-37	—	—	—
0	7	“ “ Casing	3	322A5034	PRESSED STEEL	—	—	—	—	—
	8	PISTON VALVE BUSHINGS	6	322-A-5074	10/39		32-604			
	9									
0	10	Steam Chest Cover	~~3~~ 3	~~322A5015~~		—	~~32-33~~	—	—	—
0	11	“ “ Casing	~~3~~	~~322A5039~~	~~PRESSED STEEL~~	—	—	—	—	—
	12	Valve Chamber Head								
	13	“ “ “								
	14	“ “ Cover								
	15	STEAM CHEST HEAD CASING “ “ Bushing	2	322-A-5082	10/39 STEEL PLATE					
	16	STEAM CHEST HEAD-TOP	3	322-A-5075			32-605			
	17	“ “ “ -BOTTOM	3	322-A-5076			32-606			
	18	**GROUP 34—CYL BY-PASS & RELIEF VAL**								
	19	Steam Chest Relief Valve								
	20	“ “ “ “ Base								
	21	“ “ “ “ Cap								
	22									
	23									
	24									
	25									
	26	**GROUP 35—DIE WORK**								
	27									
	28									
	29									
	30									
	31									
	32									
	33	**GROUP 36—DOME**								
0	34	Dome	1	138K5006						
0	35	“ Flange	1	362A5000	PRESSED STEEL					
0	36	“ “ Radius	—	29 1/2"						
0	37	“ Cap	1	362D5007						
0	38	“ Ring	1	362A5009	PRESSED STEEL					
0	39	“ Casing—~~Base~~	1	12040 LINE 5						
	40	“ “ —Shell	—							
	41	“ “ —Top	—							
0	42	“ Flow Bowl	1	12040 LINE 5	SHEET STEEL	—	—	—	—	—
0	43	“ “ “ Bracket	1	“	FLAT BAR	1/2" x 1 1/2" x 16	—	—	—	—
	44									
	45									
	46									
	47	**GROUP 37—DRAWGEAR F & B**								
0	48	Coupler F.	1	373A5003				37-2		
0	49	“ B.	1	“				37-2		
0	50	“ Knuckles	1	372D5000				37-6		
0	51	“ “	2	372J5000				37-10		
0	52	“ Lock	2	372A5006				37-12		
0	53	“ “ Lifter	2	372A5007				37-13		
	54	“ Link	—							
	55	“ Lever	—							
0	56	Uncoupling Shaft FRONT Front	1	214D5025	✓	37L5009				
0	57	“ “ REAR Rear	1	213D5040	✓	104F163				
0	58	“ “ Bracket	3 ✓			✓ 104F62				
0	59	“ “ “	3 ✓			37D5005				
0	60	~~Buffer~~ “ “ LINK	2	372B5004		372B5004				
0	61	“ “ CLEVIS	4	372A5004		372A5004				

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 37—DRAWGEAR (Cont.)								
0	1	Drawhead	2	373 A 5019		—	—	37-1 front only	—	—
0	2	Draw Gear Brace	1	372A5077 LINE 15	(2) 7" - 14$\frac{3}{4}$# C	~~A-11047 LINE 15~~	—	—	—	—
	3	" " "		372A5088				37-414 rear see letter		8-27-34
	4	" " " Foot	1	A-11047 LINE 15		—	—	~~37-3~~	—	
	5	" " " Foot		"		—	—	~~37-4~~	—	—
	6	" " Back								
	7	" " Shims								
	8	" " Pin								
	9	" " Frame—Front								
	10	" " " "								
	11	" " " —Rear								
	12	" " " "								
	13	" " Tie Plate								
	14	" " Friction Plate								
	15	" " Sliding Bar								
	16	" " " "								
	17	" " Connecting Rod								
	18	" " " " Pin								
	19	" " Yoke								
	20	" " " Block								
	21	" " " Followers								
	22	" " " "								
	23	" " " Binder Plate								
	24	" " Carrier Link								
	25	" " " Pin								
	26	" " " Plate								
	27	" Bar Guide								
	28	" " Pin								
	29	" " Carry Iron								
	30	" " " " Bolt Liner								
0	31	" Pin—Front	1	372A5071		372A5071				
0	32	" " —Back	1	"		"				
0	33	Shackle Bar	1	10853 LINE 1		108F50				
0	34	" " Key	1	"		108F20				
0	35	" " Gibs	2	"		1"x3"x5$\frac{1}{4}$"				
0	36	" " Brace	1	10852 LINE 1		108-F-40				
0	37	" " " Pad	1	"		—		37-79		
0	38	" " " Pin	1	10851 LINE 9		108F56				
0	39	" " Pin	1	" " 5		108F60				
0	40	Safety Link	2	10849 " 4		108F35				
0	41	" " Pins	2	10851 " 6		108F61				
0	42	" " "	2	" " 2		10851 LINE 2				
	43	GROUP 39—ECCENTRICS								
0 ✓	44	ECCENTRIC—No. 1 Cylinder	1	392-A-5102 ~~392A5073~~	10/39		39-~~44~~45			
0 ✓	45	" No. 3 Cylinder	1	"			39-~~44~~45			
0	46	" No. 2 Cylinder—Top	1	392-A-5103 ~~392A5072~~	10/39		39-42			
0	47	" No. 2 Cylinder—Bot.	1	"			39-43			
0	48	" Key	2	"	CHROME VANADIUM		—			
0	49	" Stud	2	"	MACH STEEL		—			
0	50	ECCENTRIC STRAP Top	6	392B5006			39-36			
0	51	" " Bottom	6	"			39-37			
0	52	" " Bolts	12	"			—			
0	53	" Liner	12	"			—			
	54	" " Filler	—							
	55									
0	56	ECCENTRIC ROD	3	8411 SET 2		84F30				
0	57	" "	3	"		84F34				
0	58	" " Pin	6	393 D 5000	Sent 1-10-23-1946-H.C.H.	—				
	59	" " "	—							
0	60	" " Bolts	12	8509 SET 9		—	—	—	—	—
	61	" " "	—							

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 42—ERECTING CARDS								
0	1	ERECTING PLAN—Elevation	1	428E5055						
	2	**GROUP 43—ERECTING CARDS**								
0	3	ERECTING PLAN—Sections	1	433B5061						
	4									
	5	**GROUP 44—EXHAUST PIPE & NOZZLES**								
0	6	EXHAUST Drop Pipe	1	442C5052			44-418-A			
0	7	" " Pipe Flange	1	442A5056			44-69			
0	8	" Nozzle	1	442A5062			44-68			
0	9	" "	1	442B5062			44-113			
0	10	" "	1	442C5062			44-114			
	11	" " Tip 8/39	1	442F5062	3" bore		44-68A			
	12	" Extension								
	13	" Gland								
0	14	" Reducer	1	442A5017			44-531			
0	15	" " Gland	1	442A5018			44-533			
0	16	" Pipe Elbow	1	442A5016			44-532			
0	17	" " Joint Ring	1	792K5029			79-22			
0	18	" "	1	442C5015	6" W.I. PIPE		—			
0	19	" " Nipple	1	"			—			
	20	**GROUP 45—FIREDOOR AND FIREBRICK**								
0	21	FIRE BRICK	450	AND 6 SACKS OF FIRE CLAY TO BE INSTALLED AT DESTINATION						
	22	" " Arch Tube	—							
	23	" " " " Setting	—							
0	24	" " ARRANGEMENT	1 SET	453A5017		—	—	—	—	—
0	25	FIRE DOOR ✓	1	12727		—	45-2			
0	26	" " Frame ✓	1	"		—	45-3			
0	27	" " ~~Liner~~ HINGE PIN ✓	1	"		45A5000				
0	28	" " Latch STUD ✓	1	"		5½" x 1" DIA.				
0	29	" " THUMB ~~Handle~~ NUT STUD ✓	1	"		3½" x ⅝"				
0	30	" " FEED HOLE ~~Guide~~ COVER STUD ✓	1	"		3½" x ⅝"				
0	31	" " ~~Shield~~ DEFLECTOR ✓	1	453C5008			45-133			
0	32	" " Damper ✓	1	12727			45-4			
0	33	" " " Bearing ✓	1	"			45-5			
0	34	" " " " ✓	1	"			45-6			
0	35	" " " Handle ✓	1	"		380-S-40				
0	36	" " " Thumb Nuts ✓	1	"		380-S-39				
0	37	" " Peep Hole Cover ✓	1	"		—				
0	38	" " DEFLECTOR SHAFT ✓	1	453C5008		45C5002				
	39									
	40									
	41	**GROUP 48—FRAME AND DETAILS**								
0	42	FRAME	1	488C5042						
0	43	" Boiler Saddle	1	482A5094		—	48-48	—	—	—
0	44	" " "	1	"		—	48-49	—	—	—
	45	" " Pad Clamp								
	46	" " " "								
	47	" " " "								
	48	" " " "								
	49	" Bolster Fill Blocks								
0	50	" Centre Plate	2	482F5111		—		48-656		—
0	51	" Side Bearing—Right	2	488C5042		1½" x 6½" x 14" LONG				
0	52	" " " —Left	2	"		1½" x 5" x 14" "				
0	53	" Spreader	3	"	SOFT STEEL	1" x 5" x 55¼" "				
	54	" Truss Pad	—							
	55	" " "	—							
0	56	" LINER " ~~Head~~	1	488C5042	PLATE	¾" x 7" x 12"				
0	57	" " " ~~Post Head~~	1	"	"	½" x 7" x 20"				
0	58	" " " ~~" Socket~~	1	"	"	¾" x 8" x 26"				
0	59	" REINFORCING PLATE ~~Rod Washers~~	2	"	"	1" x 6½" x 128" ✓				
0	60	" " " ~~Main Truss Rod—Right~~	1	"	"	1" x 6½" x 103" ✓				
0	61	" " " " ~~Left~~	1	"	"	1" x 6½" x 108" ✓				

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 48—FRAME & DETAILS (Cont.)								
0	1	~~Truss Rod Ends~~ FRAME LINER ✓	4	488 C 5042		3/4 x 6 x 7" ✓				
0	2	~~“ “ “~~ " "	3	"		3/4 x 5 1/4 x 7"				
0	3	~~“ “ “~~ " ANGLES ✓	6	"		1/2" x 3 x 3" - 5" LONG				
0	4	~~“ “ “~~ " " ✓	1	"		1/2" x 3" x 5" - 12" "				
0	5	~~“ “ Columns~~ " " ✓	1	"		1/2" x 3" x 3" - 12" "				
0	6	~~“ “ “~~ " " ✓	1	"		1/2" x 3 1/2" x 6" - 9 1/2" "				
0	7	~~“ Post Guides~~ " " ✓	1	"		1/2" x 6" x 6" - 10 1/2" "				
	8	“ “ “	—							
0	9	Frame Brace ✓	1	488 C 5042		5/8 x 24" x 60"				
0	10	“ “	1	"		5/8 x 9 1/2 x 60"				
0	11	“ “ ✓	1	"		5/8 x 16" x 54"				
0	12	“ “ ✓	1	"		5/8 x 9 1/2" x 54"				
	13	“ “								
0	14	“ “ END TIMBER ANGLE ✓	2	11025 SET 10		—				
0	15	Frame Pit Irons ✓	2	488 C 5042		48 Y 5013		48-22 ✓		
0	16	“ “ “ ✓	1			48 X 5013				
0	17	“ “ “ ANGLE ✓	1			1/2" x 3" x 3" - 54" LONG.				
	18	“ “ “	—							
0	19	“ End Casting ✓	1	483 B 5013		—		48-186-C ✓		
0	20	“ “ Timber Brace ✓	1	488 C 5042		48A 5039				
0	21	“ Angle ✓	3	"		5/8 x 6" x 6" - 12 1/2" LONG				
0	22	“ “ ✓	1	"		5/8" x 3 1/2" x 6" - 12 1/2" LONG.				
0	23	“ “ ✓	8	"		5/8" x 6" x 6" - 7 1/2" "				
0	24	“ “ ✓	8.	"		5/8 x 3 1/2" x 6" - 7 1/2" "				
0	25	“ “ ✓	6.	"		1/2 x 3" x 3" - 19 1/2" "				
0	26	“ “ ✓	2.	"		1/2" x 3" x 3" - 13 1/2" "				
0	27	“ Smoke Box Brace Pad	2	13007 SET 1		—	48-15			
0	28	EXPANSION PLATE	1	482 A 5180		—				
0	29	“ “ Angle	1	"		482A5180				
0	30	FURNACE BEARER—Front	1	482A 5160				48-695 ✓		
0	31	“ “ —Rear	1	482A 5161				48-696		
0	32	“ “ ~~Plate~~ SUPPORT	2	482A 5159				48-694 ✓		
0	33	“ “ Fill Blocks	2	482A 5158				48-693 ✓		
	34	Boiler Pad—Right	—							
	35	“ “ —Left	—							
	36									
	37									
	38	**GROUP 49—GAUGES, TEMPLATES & JIGS**	—							
	39									
	40									
	41									
	42	**GROUP 50—GUIDES & ATTACHMENTS**								
0	43	Guide	6	502 B 5000		—	50-1	—		—
	44									
	45									
	46	**GROUP 51—GRATE ARRANGEMENT**								
	47	Grate Arrangement	—							
	48	**GROUP 52—GRATE DETAILS**								
	49									
	50									
	51	Grate Bars								
	52	“ “								
	53	“ “								
	54	“ Center Rail								
	55	“ Side “								
	56	“ “ “								
	57	“ Cover Plate								
	58	“ “ “								
	59	“ Shaker Pins								
	60	“ “ “								
	61	“ “ “								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 52—GRATE DETAILS (Cont.)								
	1	Grate Dead Plate								
	2	" " "								
	3	" Drop "								
	4	" Dump Shaft								
	5	" " " Bearing								
	6	" " " "								
	7	" " " Links								
	8	" " " Lever								
	9	" " Lever								
	10	" Shaker Shaft Bracket								
	11	" " " "								
	12	" " Lever								
	13	" " Shaft								
	14	" " "								
	15	" " " Lever								
	16	" " " "								
	17	" " " Hand Lever								
	18	" " " " "								
	19	" " Lever Connection								
	20	" " " "								
	21	" " Connection Bar								
	22	" " " "								
	23	GROUP 53—H'NDRAIL & STEPS (En.&Tr)								
	24	HAND RAIL	—							
0	25	" " Bracket	2	10010		—	53-10	—	—	—
	26	" " Balls	—							
0	27	" " Columns	2	A-11404		—	53-7	—	—	—
0	28	" " "	2	A-11406 STYLE 2		—	53-9	—	—	—
	29	" " "	—							
	30	" " "	—							
0	31	" " " Blocks	2	532C5034		—	53-3	—	—	—
	32	" " " "	—							
0	33	" " Flanges	2	532F5034		—	53-5	Z	Z	Z
0	34	Cab Handle—Right	2	532B5002		532B5002	Z			
0	35	" " —Left	2	"		"				
0	36	" HAND RAIL ~~Coal Bunk Handle—Right~~	1	532M5066		532M5066				
	37	" " " —Left								
	38	Tank Handle								
0	39	End Timber Handle FRONT	1	214D5025		53M5041	Z	Z	Z	Z
0	40	" " " REAR	1	213D5040		53E5038				
0	41	" " " Bracket FRONT	1	214D5025		53E5008				
0	42	" " " " REAR	1	213D5040		103F122				
0	43	FUEL BUNK HANDLE	3	833A5007		53D-2	—	—	—	—
0	44	OIL TANK "	1	883C5047		53D 2	—	—	—	—
	45	Bottom Bracket Step	—							
0	46	Cab Step LEFT	1	532C5065		53C5029	Z	Z	Z	Z
0	47	" " "	1	"		53D5002				
0	48	" " BRACE	1	"		53J5028				
0	49	" " RIGHT	1	A-11175		—	53-75			
0	50	" " ~~Brace~~ ON TRUCK	✓ 1	532A5018		—	53-249			
0	51	" " BRAC. " "	✓ 2	532B5017		532B5017	—			
0	52	" " ~~Cylinder Step~~ " "	✓ 1	532A8		—	53-168			
0	53	" " ~~Hood Step~~ RIGHT	~~1~~	~~A-11188 STYLE 2~~		~~A-11188 STYLE 2~~	—			
	54	Generator Step	—							
0	55	End Timber Step—Front	4	214D5025		103F18	Z	Z	Z	Z
0	56	" " " —Back	4	213D5040		"				
0	57	" " ~~Headlight Step~~ " FRONT	1	214D5025	FLAT BAR	1/2" x 2" x 28"				
	58	Pilot Step	—							
0	59	SAND BOX STEP BRACKET	1	533B5003		533B5003	—	Z	Z	Z
0	60	Sand Box Step	2	532A279		—	53-14			
0	61	" " " Bracket	1	533E5003		533E5003	—			

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.								
	1	Flag Socket	—							
	2	“ “	—							
✓	3	Headlight {~~Oil~~ Electric}	2	14" SUNBEAM	WITH TURBO GENERATOR		—	—	—	—
✓	4	Headlight Bracket	1 PR.	10000 SET 7	PLATE		—	—	—	—
	5	“ Columns	—							
✓	6	“ Shelf—Front	1	1/8" x 16" x 26"	PLATE	—				
✓	7	“ “ —Rear	1		ROUND OFF CORNERS ON REAR OF PLATE 2" RAD.					
✓	8	Generator Bracket	2	10003		100F3				
✓	9	“ Shelf	1	“	1/4" x 15" x 18" PLATE					
✓	10	Lamp	1	DRESSEL ELECT.						
✓	11	“	1	“ “						
✓	12	“ Bracket	1	542A5011 [illegible]		542A5011 [illegible]				
	13	“ “	—							
✓	14	Number Plate	1	542A5009					54-6	
✓	15	“ “ Stud	1	A-12969					—	
✓	16	Builder's Card	2	542A82					54-169	
✓	17	Name Plate	2	B-11138			54-4		—	
✓	18	Patent Plate	1	542A ~~[illegible]~~ 5017			—		54-~~[illegible]~~ 401	
✓	19	Property Plate	— 2	542A5018		—	54-454	—	—	—
	20	Superheater Patent Plate	—							
✓	21	Electrical Equipment	1 SET	54M.O.5006		—	—	—	—	—
	22									
	23									
	24	**GROUP 55—INJECTORS & FEED, WATER**								
✓	25	Injectors	2	#7 NATHAN LIFTING LEVER HANDLE MONITOR TYPE "88"						
✓	26	“ Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	27									
	28									
	29									
✓	30	Injector Check Valve & STOP	2	1½" NATHAN TYPE 280-A TO NATHAN CO. 696						
	31	“ “ Flange &								
	32	“ Stop Valve								
	33	Feed Pipe Strainer								
✓	34	“ “ Bracket	2	552A5036		—	55-3	—	—	—
✓	35	“ “ “ Cap	2	“		—	55-4	—	—	—
	36	“ Pipe Hanger	—							
	37	“ Hose Connection	—							
✓	38	“ “ “ Nuts	4	553A5002			—		55-12	
✓	39	“ “ “ “	4	“			55-15		—	
✓	40	“ “ “ Nipples	4	“			—		55-11	
	41									
	42									
	43									
	44	**GROUP 57—LAGGING & JACKET**								
✓	45	Lagging (Boiler)	1 SET	57M.O.5029		—	—	—	—	—
	46	“ Panel								
	47	“ “								
	48	“ “								
	49	“ Angle Iron								
	50	“ “ “								
✓	51	Jacket (Boiler)	1 SET	PAINTED STEEL #22 B.W.G.						
	52	“ Band	—							
	53	“ “ Angle	[illegible]	[illegible]		[illegible]				—
✓	54	“ Clamp	36	572A46		—				57-28
✓	55	“ “	6	572A5004		572A5004				—
✓	56	Plug Casing	9	572A6		—				57-4
✓	57	“ “								
	58	“ Cover								
	59	Cylinder Lagging								
	60	“ Jacket								
✓	61	“ Hood	1	572J5008	PLATE	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
0	1	Link	3	583 B 5002		—	—	58-1	—	—
	2	" —Top Half	—							
	3	" —Bottom Half	—							
0	4	" Saddle	3	583 B 5002		81 F 17	—	—	—	—
0	5	" " Bolts	6	8511 SET 11						
	6	" " "	—							
0	7	" Block	3	582 A 5014		FIN. SIZES 1½" x 2¼" x 3"	Z	Z	Z	Z
0	8	" " Pin	3	8512 SET 9		—				
0	9	" " Plates	6	582 A 5014	C.R. STEEL	—				
	10	" " Ends	—							
0	11	" Hanger	3	582 A 5029		81 F 34	—	—	—	—
0	12	" " Pin	3	8513 SET 3	C.R. STEEL	—	—	—	—	—
	13									
	14	**GROUP 59—OIL CUPS & LUBRICATION**								
0	15	Lubricator	1 1	NATHAN 5 FEED 5 PINT 1918 TYPE COMP. WITH ST. VALVE MANZEL 3" 4" OIL PUMP PAINTED BLACK RATCHET DRIVE L. H. REAR DISCHARGE						
0 ✓	16	" Bracket	1	592 B 5031 ~~To Suit Erect. Shop~~		592 B 5031 ~~To Suit Erect. Shop~~				
	17									
0	18	Bottom Bracket Oil Cup	4	592 A 5006		—	59-48	—	—	—
0	19	" " " " Cap	4	"		—	59-49	—	—	—
	20	" " " " Nut								
	21	" " " " Plug								
	22	" " " " Cover								
	23	" " " " "								
	24	" " " " Hinge Lugs								
	25	" " " " " "								
0	26	" " Grease Cup	4	592 A 5007		—	59-50	—	—	—
	27	" " " " Cap	—							
0	28	" " " " Nut	4	592 A 5007		Z	59-51	Z	Z	Z
0	29	" " " " Plug	4	"			59-52			
0	30	Crosshead Oil Cup	3	#3 SPRING TOP			—			
	31	" " " Cap								
	32	" " " Nut								
	33	Ecc. Strap Oil Cup								
	34	" " " " Cap								
	35	" " " " Nut								
	36	Gear Oil Cups								
	37	" " " Covers								
0	38	Guide Oil Cup	6	HANCOCK #1 MALL. IRON PURCHASED		—	—	—	59-41	—
0	39	" " " Cap	6	"		—	—	—	59-42	—
	40	" " " Nut								
	41	Link Oil Cup								
	42	" " " Cap								
	43	" " " Nut								
	44	Packing Oil Cup								
	45	" " " Cap								
	46	" " " Nut								
	47	Rod Oil Cup								
	48	" " " Cap								
0	49	" GREASE " Plug	3	592 A 5025	BAR STEEL	—	~~[illegible]~~	—	—	—
	50	" " " Latch								
	51	" " " Spring								
	52	" " " Base								
	53	Tumb. Shaft Oil Cup								
	54	" " " " Cap								
	55	" " " " Nut								
0	56	Truck Box Oil Cup Cover—R. Box	6	TO SUIT TRUCK BOX		—	—	—	—	—
0	57	" " " " " —L. Box	6	" " " "		—	—	—	—	—
	58	" " " " " Hinge Plate	—							
	59	Valve Stem Oil Cup	—							
0	60	Oil Can Shelf	1	592 A 5004		—	59-120	—	—	—
	61	" " " Bracket	—							

Grease cups cd. 592A5010 supplied by Customer per K.H. 8-6-35

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 60—OIL BURNER, ENGINE ONLY								
✓	1	Oil Burner	1	2" VON BODEN	PURC.					
✓	2	" " Arrangement B	1	604A5013						
✓	3	" " Support	1	"	3/8" x 1 3/4" x 8 1/2" PLATE					
✓	4	" " Turret	1	C-11881 LINE 2			60-3			
✓	5	" Cock Rod	1	3/4" PIPE LENGTH TO SUIT. E.S.						
✓	6	" " " Jaw B	2	604A5013		118F186				
✓	7	" " " " B	2	"		[illegible]				
✓	8	" " Shaft	1	602C5050		602C5050				
	9	" " " Arm								
	10	" " " Hanger								
	11	" " " Collar								
✓	12 x	" Pipe Support	2	604A5013		118F31	—	—	—	—
	13	" " "	—							
✓	14	" " Clamp	2	604A5013		118F30	—	—	—	—
	15	" " "	—							
✓	16	" Heater Support	2	604A5013		60A5013				
✓	17	" " Clamp	2	"		60A5014				
✓	18	" Regulator Bracket ✓	1	602A5006		602A5006				
✓	19	" " Shaft x	1	604A5013		60V5002				
✓	20	" " " Arm ✓	1	602F5009		602F5009				
✓	21	" " " Hanger ✓	1	602D5037 ✓		602D5037				
✓	22	" " " Collar TOP x	1	602D5021		602D5021				
✓	23	" " " " BOTTOM ✓	1	604A5013		1" x 2 5/8" COLLAR				
✓	24	" " Quadrant x	1	602A5012 x		118F309				
✓	25	" " Lever x	1	602A5013 x		—			60-18	
✓	26	" " Latch x	1	602A5015 x		118F3			—	
✓	27	" " " Handle x	1	602A5016 x					60-19	
✓	28	" " " Spring x	1	602C5021 x	BRASS WIRE				—	
✓	29	" " " Link x	1	602A5021 x	MACH. STEEL				—	
	30	" " " Guide	—							
	31	" " " Pin	—							
	32	" " Lever Dowel	—							
✓	33	" " " Stop x	1	602A5012 x	PLATE	—	—	—	—	—
	34	" " " Thumb Nuts	—							
	35	" " " Adjusting Screw	—							
✓	36	" Damper Regulator Quadrant x	1	602A5047 x		602A5047	—	—	—	—
✓	37	" " " Handle x	1	602A5046 x		—	—		60-18	
✓	38	" " " Shaft x	1	604A5013 x	1 1/4" W.I. PIPE 80 3/4" LONG				—	
✓	39	" " " " Bushing x	2	602E5021 x					60-23	
✓	40	" " " " Arm	1	602K5035	1 1/4" EX. HEAVY PIPE	602K5035			—	
✓	41	" Heater	1	603C5031	2 1/2" STD. PIPE	—			—	
	42	" " Stuffing Box								
	43	" " " " Follower								
	44	" " " " Nut								
✓	45	DAMPER REGULATOR ARRG'T.	1	602A5049		—			—	
✓	46	" " LATCH x	1	602A5048 x		602A5048			—	
✓	47	" " " HANDLE x	1	602A5016 x					60-19	
✓	48	" " " SPRING x	1	602C5021 x	BRASS WIRE				—	
✓	49	" " " LINK x	1	602A5021 x	MACH. ST'L.				—	
	50	**GROUP 61—PAINT'G, LETTER'G, NUM'G**								
	51	Lettering								
	52	Numbering								
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOWS								
	1	PILOT								
	2	Pilot Band								
	3	“ Bottom Plate								
	4	“ Corner Iron								
	5	“ Brace								
	6	“ “								
	7	“ “								
	8	“ “								
	9	“ “ Rod								
	10	“ Knee								
	11	“ “								
	12									
	13									
	14	Snow Plow 10/40	—2	RAY SNOW FLANGERS. TO CD. 3-135411 WITH STEEL BRUSHES TO Q.T.C PRINT 37437						
	15			COMPLETE WITH ALL PIPE, FITTINGS & HOSE.						
	16									
	17	**GROUP 63—PIPE FITTINGS**								
	18	Air Gauge Fitting	—							
✓	19	“ Pump Oil Fitting	1	7138	STICK BRASS	—	—	—	—	—
✓	20	“ “ “ “ Nut	1	"	" "	—	—	—	—	—
	21	“ “ “ “ Swivel								
✓	22	“ “ Exhaust ~~Wye~~ DRAIN	1	632A5009	3½" x 32" x ⅛" STEEL TUBING.		—	—	—	—
✓	23	“ “ ~~Tee~~ “ “ BRACKETS	2	"		TO SUIT ERECT. SHOP	—	—	—	—
	24									
	25									
✓	26	Blower Fitting	1	632A5004		—	—	—	63-6	—
	27	“ “ Nut	—							
✓	28	Brake Release Check	1	13523	STICK BRASS	—	—	—	—	—
✓	29	“ “ “ Valve	1	"		—	—	—	63-64	—
	30	Brake Ex. Fitting								
	31	“ “ “ Nut								
	32	Coal Sprinkler Fitting								
	33	“ “ “ Nut								
	34	“ “ “ Swivel								
✓	35	Cylinder Oil Pipe Fitting	3 SET	632A5005.	STICK BRASS	Z	Z	Z	Z	Z
✓	36	“ “ “ “ ~~Nut~~ MANZEL PUMP PUMP END	3 "	632A5007	" "					
✓	37	“ “ “ “ MANZEL PUMP " ST. CHEST END	3 "	632B5007	" "					
	38	“ “ “ “ Swivel								
	39	“ “ “ Bracket								
	40	Angle Valve Nut								
	41	“ “ Swivel								
	42	Through Valve Nut								
	43	“ “ Swivel								
	44	Oil Cock Nut								
	45	“ “ Swivel								
✓	46	Lubricator ~~Check~~ DRAIN FITTING	1 SET	632B5007	STICK BRASS	—	—	—	—	—
	47	Steam Brake Oil Fitting	—							
	48	“ “ “ “ Nut	—							
✓	49	E.T. BRAKE FITTING	3 SET	632B5007	STICK BRASS	—	—	—	—	—
	50	Check Pipe Union								
	51	“ “ “ Nut								
	52	“ “ “ Swivel								
	53	Oil Pipe Union								
	54	“ “ “ Nut								
	55	“ “ “ Swivel								
	56	Steam Pipe Union								
	57	“ “ “ Nut								
	58	“ “ “ Swivel								
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
	1	Pipe Clamp	Z							
	2	" "								
	3	" "								
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14	**GROUP 64—PIPING ARRANGEMENTS**								
	15	Piping Arr'g. General	Z							
	16	" " Air Brake								
	17	" " Cooling Pipes								
	18	" " Bet. Eng. and Tender								
	19	" " Oil Heater								
	20	" " Sprinkler								
	21	" " Steam Heat								
	22									
	23									
	24									
	25									
	26	**GROUP 65—PISTON AND ROD**								
0	27	PISTON HEAD	3	652A5135		—	65-99	Z	Z	Z
0	28	" Packing Rings, Material For	6	653 F 5000	Pot Pattern	— FIN. SIZES	65-6			
0	29	" Rod	3	652A5123		27" x 2$\frac{3}{16}$ DIA.	—			
	30									
	31									
	32									
	33	PISTON ROD PACKING	—	A- 7/39 C 11/37	2$\frac{3}{16}$" Pot Pattern					
0	34	Packing Rings	9 SET	652A 5153	SENT 6 SETS-652-A-5153-2$\frac{3}{16}$" BORE-R.19930-5-4-1946-H.C.H. PAXTON & MITCHELL FOR SUPERHEATED STEAM		—		—	—
0	35	" Spring Washer	3	652-A-5167 ~~7759 SET 4~~		—	65-45	—	~~65-26~~	—
0	36	" Swab Cap	3	652A5091		—	—	—	65-26	—
	37	" Follower	—							
0	38	" Stuffing Box	3	652A5056		Z	65-41	Z	Z	Z
0	39	" " " Gland	3	652A5059			65-42			
0	40	" Vibrating Cups	3	652A5082			65-~~43~~46			
0	41	" Spring	3	#13			—			
	42									
	43									
0	44	PACKING STUDS Piston Rod	12	7758 SET 4		—	—	—	—	—
	45	**GROUP 66—PLUGS**								
	46	Arch Tube Plug	—							
0	47	Back Head Plug (Prime)	3	1$\frac{7}{8}$" x 11$\frac{1}{2}$ THDS TAPER $\frac{3}{4}$" IN 12"		—	—	—	—	—
	48	Crown Plug	—							
	49	Ecc. Strap Plug	—							
0	50	Firebox Plug (Prime)	4	1$\frac{7}{8}$" x 11$\frac{1}{2}$ THD'S. TAPER $\frac{3}{4}$" IN 12"		—	—	—	—	—
	51	" "	Z							
	52	Fusible Plug								
	53	Indicator Plug								
	54	Smoke Box Plug								
	55	Tube Sheet Plug								
	56	Test Plug								
0	57	Waist Plug (Prime)	3	1$\frac{7}{8}$" x 11$\frac{1}{2}$ THDS TAPER $\frac{3}{4}$" IN 12"		—	—	—	—	—
	58	Washout Plug Valve	Z							
	59	" " " Cap								
	60	" " Flange								
	61	STEAM CHEST " PEEP HOLE PLUG	6	662-A-5010	STK. BR.	10/39				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	CASTINGS—PATTERN NUMBERS Cast Steel	CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal. Iron
		GROUP 68—REVERSE LEVER								
0	1	Reverse Lever	1	—		83F97			—	
0	2	“ “ Arrangement	1	683H5004		—			—	
0	3	“ “ Handle	1	682D173		—			68-3A	
0	4	“ “ Latch	1	682A5039		83F49				
0	5	“ “ “ Guide	1	″		FIN. SIZES 1¼″ x 2″ x 3½″				
0	6	“ “ “ Rod	1	″		83F109				
0	7	“ “ “ Details	1	″		FIN. SIZES ¾″ x 1″ x 2 15/16″				
0	8	“ “ Quadrant	1	682A5017		83F42				
0	9	“ “ “	1	″		83F50				
0	10	“ “ “ Plate	1	682B5041						
	11	“ “ Foot Rest	—							
0	12	“ “ Shaft	1	682F5008		682F5008	—	—	—	—
0	13	“ “ “ Length	—	14″ ℄ TO ℄		—	—	—	—	—
	14	“ “ Arm								
	15	“ “ Fulcrum								
	16	“ “ “ Bracket								
	17	“ “ “ Pin								
0	18	“ “ Shaft Stand	1	5471 SET 2		83F65				
0	19	“ “ Quadrant Bracket	1	488C5042		✓ 109F124				
0	20	“ “ “ “	1	″		✓ 68B5017				
	21	“ “ “ “								
	22									
	23									
	24									
	25									
	26	**GROUP 69—REVERSE SHAFT**								
0	27	TUMBLING SHAFT	1	692D5047	ANGLE A = 1¼°	692D5047	—	—	—	—
	28	“ “ Arm	—							
	29	“ “ Collar	—							
0	30	“ “ Box	3	8215 SET 2			69-5			
0	31	“ “ “ Cap	3	″			69-6			
0	32	“ “ Coupling Ball	2	8316 SET 2			69-2			
0	33	“ “ “ Socket	2	″			69-3			
0	34	“ “ “ Cap	2	″			69-3			
0	35	“ “ “ Sleeve	1	″		FIN. SIZES 1½″ HEX, 3½″ LONG				
0	36	“ “ “ Conn.	1	″		1½″ ″ 8 5/16″ ″				
0	37	“ “ “ “	1	″		1½″ ″ ¾″ ″				
0	38	“ “ “ Nut	1	″		—				
	39									
	40	**GROUP 71—RUNNING BOARDS**								
0	41	RUNNING BOARD	1 SET	717 [illegible] B5026						
	42	“ “								
0	43	“ “ Bracket	✓ 8	488C5042		71 [illegible] X5007	—	—	—	—
0	44	“ “ “	✓ 1	712N5031		712N5031	—	—	—	—
	45	“ “ “								
	46	“ “ “								
	47	“ “ “								
0	48	“ “ “ Engine RIGHT	1	712C5051	PLATE					
0	49	“ “ “ “ LEFT	1	712D5051	″					
0	50	“ “ “ “	✓ 2	713L5019	″					
0	51	“ “ “ “	[illegible]	[illegible]	[illegible]					
0	52	“ “ “ “	✓ 1	712C5053	″					
0	53	“ “ “ “	✓ 2	TO SUIT ERECT. SHOP	3½″ x 3½″ x 26″ WOOD BLOCKS		—	—		—
	54	“ “ “ “								
0	55	“ “ “ Tender	✓ 1 SET	A-10917 LINE 4						
0	56	“ “ “ “ RIGHT	1	10937 LINE 5 LEFT	PLATE					
0	57	“ “ “ “ LEFT	1	″ ″ 6 RIGHT	″					
0	58	“ “ “ “	✓ 2	854A5005		109F404				
0	59	“ “ “ “	✓ 2	″		109F382				
	60	“ “ “ “								
	61	“ “ “ “								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS								
0	1	Connecting Rods	3	723 C 5003		89 F 32			—	
0	2	" " Brass, Xhd End	3	722 A 5035					72-12	
0	3	" " " " "	3	" P-5139 ALSO 12/40 ~~#~~-5139					72-12	
0	4	" " " Crank "	3	722 A 5021	TINNED				72-79 75	
0	5	" " " " "	3	"	"				72-70	
	6				See note	page 14 item 49				
0	7	Connecting Rod Strap	3	722 B 5086		722 B 5086				
0	8	R.19501 " " Wedge—Top 5-12-45 → BOLT 722 A 5032	3	723 C 5003		FIN. SIZES $1\frac{3}{4}$" x $2\frac{1}{2}$" x $3\frac{3}{4}$"				
0	9	" " " —Bottom	3	722 A 5031		2" x $2\frac{1}{2}$" x $2\frac{3}{4}$"				
0	10	" " Key—Top	3	"	722-A-5032	89 F 35				
	11	" " " —Bottom	—							
	12	" " Wedge Liner	—							
	13									
	14									
	15									
	16	**GROUP 73—SAND BOX**								
0	17	Sand Box—Front	1	733 A 5000			—			
0	18	" " Base	1	12247 LINE 4			73-69			
0	19	" " Top	1	733 A 5000	PRESSED STEEL		—			
0	20	" " Lid	1	732 B 5000			73-31			
0	21	" " Valve	2	732 A 5022			73-4			
0	22	" " Lever—Short	1	733 A 5000			73-20			
0	23	" " " —Long	1	"		73 A ~~5000~~ 5014	—			
0	24	" " Rod Handle	1	732 A 5027		—	73-6			
0	25	" " Rigging	2	733 A 5000		$\frac{1}{4}$" x $\frac{1}{4}$" x $17\frac{3}{4}$"	—			
0	26	" " Rod	1	$\frac{3}{8}$" PIPE TO SUIT E.S.			—			
0	27	Air Sander	4	732 A 5002			73-93			
0	28	" " Nozzle	4	"	STICK BRASS					
0	29	Sand Box—Flue	1	12227 LINE 1	PLATE					
0	30	" " Funnel	1	732 A 5033	} GALV. IRON					
0	31	" " Scoop	1	"						
0	32	SAND BOX—Back	1	732 B 5032	PLATE					
0	33	~~Back~~ Sand Box ~~Arrangement~~ FLUE HANDLE	1	12227 LINE 1		151 F 98				
0	34	BACK " " Base	2	732 A 5025			73-5			
0	35	" " " Top	2	732 A 5024			73-314			
0	36	" " " Covers	2	"			73-12			
	37	" " " Valve								
	38	" " " Shaft Hanger								
	39	" " " " " Caps								
0	40	FRONT " " ~~Hand Lever~~ STUDS	4	733 A 5000	$\frac{5}{8}$" DIA. LENGTH TO SUIT E.S.	—	—	—	—	—
0	41	FRONT " " LUGS ~~Fulcrum~~	4	"		530-S-85	—	—	—	—
	42	" " " " " Rod								
	43	" " " Horiz. Lever								
	44	" " " " " Fulcrum								
	45	" " " " " Guide								
	46	" " " Rod Jaws								
	47	" " " " "								
	48	" " " Shaft								
	49	" " " " Lever								
	50	" " " " "								
	51	" " " Valve Lever								
	52	" " " " Rod								
	53	" " " " "								
	54	" " " " " Conn.								
	55	" " " Rod Bell Crank								
	56	" " " " " " Fulcrum								
0	57	" " " Brace	2	TO SUIT ERECT. SHOP		TO SUIT E.S.				
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS			For Grease Lubrication 8-15-29					
0	1	COUPLING RING —Front	2	743A5010	743A5094			74-16	—	
0	2	" " Half "	4	743B5010	" B "			74-17	—	
0	3	" " Bushing "	8	742A5035	M-HCH sent 24 entirely Rough 6/39			—	74-19	
0	4	" " Oil Cellar "	8	742A5034	742A5389		74-18	—		
0	5	" " —No. 2	2	743A5010	743A5094			74-16		
0	6	" " Half "	4	743B5010	B			74-17		
0	7	" " Bushing "	8	742A5035				—	74-19	
0	8	" " Oil Cellar "	8	742A5034	742A5389		74-18	—	—	
	9	" " —No. 3								
	10	" " Half "								
	11	" " Bushing "								
	12	" " Oil Cellar "								
0	13	" " —Rear	2	743A5010	743A5094			74-16	—	
0	14	" " Half "	4	743B5010	" B "			74-17	—	
0	15	" " Bushing "	8	742A5035				—	74-19	
0	16	" " Oil Cellar "	8	742A5034	742A5389		74-18	—	—	
	17									
0	18	CRANK SHAFT	1	745A5006	#63	157F19	—	—	—	—
	19	Counterbalance								
	20	" Weight								
	21	" "								
	22	" "								
	23	" Yoke								
	24	" "								
0	25	Horn Coupling	2	742A5267	1-10-4-37 R-51785	—	—	74-27	—	—
	26	" "	—							
0	27	" " Key	2	9060 LINE 2		90-F-2	—	—	—	—
	28									
	29									
0	30	LINE SHAFT—Front Truck	1	743A5070		FIN. SIZES 81 1/4" x 4 1/4" DIA.	—	—	—	—
0	31	" " —2nd "	1	"		FIN. SIZES 89" x 4 1/4" "	—	—	—	—
	32	" " —3rd "	—							
0	33	" " —Rear "	1	743A5070		FIN. SIZES 82 5/16 x 4 1/4" DIA.			—	
0	34	" " Bearings, Outside—Front	2	742B5136	SENT 2 PRS.-4 1/4" BORE-R.19996-H.C.H.				74-811	
0	35	" " " Inside "	2	"					74-811	
0	36	" " " Outside—2nd	2	742B5136					74-811	
0	37	" " " Inside "	2	"					74-811	
	38	" " " Outside—3rd	—							
	39	" " " Inside "	—							
0	40	" " " Outside—R'r	2	742B5136		—	—	—	74-811	—
0	41	" " " Inside "	2	"		—	—	—	74-811	—
	42	" " " Plate—Front								
	43	" " " " —2nd								
	44	" " " " —3rd								
	45	" " " " —Rear								
0	46	" " Collar	6	742D5192				74-342		
0	47	" " "	5	742A5229				74-360		
0	48	" " "	1	742L5143				74-334		
	49	" " "								
	50	" " "								
	51	" " "								
	52	" " "								
	53	" " "								
	54	" " "								
0	55	" " Coupling	2	742A5273		—	—	74-489	—	—
0	56	" " "	2	"		—	—	74-489	—	—
	57	" " "								
	58	" " "								
	59	" " "								
	60	" " "								
	61	" " "								

M.P.D. has been using rough castings finished to fit [illegible] 9-4-41

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS (Cont.)								
	1	LINE SHAFT Coupling Key								
	2	“ “ “ “								
	3	“ “ “ “								
	4	“ “ Collar “								
0	5	“ “ Pinion	6	742 B 5106	SENT 1-4¼" BORE - R. 20023-7-29-1943-H.C.H.	—	—	74-204-A	—	—
	6	“ “ “							Future consider using #24 gear with 7" teeth like co. 367 ~~see Rings~~ report on #94	
	7	“ “ “								
	8	“ “ “								
0	9	“ “ Washer	6 PR.	742 A 5196		—	74-418	—		
	10	“ “ “								
	11	“ “ “								
	12	“ “ “								
0	13	GEAR RIM	6	743 A 5048		—		74-203-A		
0	14	“ “ Bolt	48	742 F 5254		742 F 5254				
0	15	“ “ Key	24	8824 SET 10		8824 SET 10				
0	16	SQUARE SHAFT—Front	1	742 A 5250		742 A 5250				
0	17	“ “ —Back	1	742 W 5250		742 W 5250				
0	18	“ “ —Center	1	742 B 5250		742 B 5250				
✓	19	“ “	—							
0	20	“ “ Sleeve CENTER & REAR	×2	742 E 5110	5388 for Grease Lubrication 8-13-79 D.T.		~~74-317~~	74-317		
0	21	“ “ “ FRONT	1	742 D 5110			~~74-316~~	74-316		
0 ✓	22	“ “ “ ~~REAR~~	~~[illegible]~~	~~[illegible]~~			~~[illegible]~~			
	23	“ “ “								
	24									
	25									
	26	**GROUP 75—SMOKE BOX AND STACK**								
0	27	SMOKE BOX ARRANGEMENT	1	813 D 5010		—				
0	28	“ “ Deflecting Plate	1 SET	A-12938 LINE 2	PLATE	—				
0	29	Deflecting Plate Angle	2 1	“ “		129 F 261 129 F 82				
0	30	Draft Pipe	1 SET	813 D 5010	PLATE	—				
0	31	“ “ Hanger	2	“		129 F 203				
0	32	“ “ “	2	“		129 F 173				
	33	“ “ “	—							
0	34	“ “ “ Key Bolt	6	813 D 5010		75 A 5030	—	—	—	—
	35	Netting Frame								
0	36	“ ~~Ring~~ DEFLECTOR PLATE ANGLE	1	A-12938 LINE 2		129 F 265	—	—	—	—
	37	Cinder Pocket								
	38	“ Pot Base								
	39	“ “ Lid								
	40	“ “ Hand Wheel								
	41	“ “ Yoke								
	42	Cleaning Hole								
	43	“ “ Flange								
	44	“ “ Cover								
0	45	Peep “ Flange	2	752 B 5054		—	75-62			
0	46	“ “ Cover	2	752 A 5055		—	75-66			
0	47	SMOKE BOX Brace—Right	1	TO SUIT E. S.		75 K 5034	—			
0	48	“ “ “ —Left	1	“ “ “ “		“				
0	49	“ “ “ Pad	2	752 A 5047				75-10		
0	50	“ “ “ Pin	2	13002 SET 2						
0	51	“ “ “ Washer	2	13003 “ ~~S~~2						
0	52	SMOKE BOX FRONT	1	A-12970 LINE 3	PLATE					
0	53	“ “ “ Door	1	“						
	54	“ “ “ Liner	—							
	55	“ “ Door Liner	—							
0	56	“ “ “ Buttons	15	752 A 5079		—	75-455			
0	57	“ “ “ Hinge	1	“		75 A 5000				
0	58	“ “ “ “	1	“		75 A 5003				
0	59	“ “ “ “ Lug	1	“		—		75-25		
0	60	“ “ “ “ “	1	“		—		75-26		
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)								
0	1	SMOKE STACK (Type Taper)	1	752B5024		—	75-29	—	—	—
	2	Smoke Stack Base								
	3	“ “ Extension								
	4	“ “ Top								
	5	“ “ Cone								
	6	“ “ “ Bracket								
	7	“ “ “ Brace								
	8	“ “ “ “								
	9	“ “ Cleaning Hole								
	10	“ “ “ “ Cap								
	11	“ “ Hood								
	12	“ “ Ring								
	13	“ “ “								
	14	“ “ “ Angle								
0	15	“ “ Saddle	1	752B5033		—	75-34	—	—	—
	16									
	17									
	18	**GROUP 76—SPRINGS**								
0	19	Truck Bolster Springs	60	762A ~~[illegible]~~ 5003		—	—	—	—	—
	20	“ Pedestal “	—							
	21	Drawgear Springs	—							
	22									
	23									
	24									
	25									
	26	**GR'P 78—STE. GAUGE SAF. VAL. & TUR.**								
0	27	Steam Gauge	1	5½ ASHCROFT BRASS RING		—	—	—	—	—
	28									
0	29	Safety Valve	2	2" CONSOLIDATED FORM "H" TYPE "FH" 200#						
	30	“ “								
	31	“ “ Elbow								
	32	“ “ Turret								
	33	“ “ “ Bushing								
	34	“ “ “ Ring								
	35	“ “ “ Casing								
	36	“ “ “ Flow-Bowl								
0	37	TURRET	1	783P5006					78-1	
0	38	“ Ball Joint	1	A-11424 SET 1					78-5	
0	39	“ Stuffing Box	1	78~~3~~2A5005					78-2	
0	40	“ “ “ Nut	1	″	STICK BRASS				—	
	41	“ “ “ Follower	—							
0	42	“ Master Valve	1	78~~3~~2A5005					78-3	
0	43	“ “ “ Nut	1	″	STICK BRASS					
0	44	“ “ “ Stem	1	″	″ ″					
0	45	“ “ “ Hand Wheel	1	″	Future use Crane 4" dia.		27-14			
0	46	“ Bonnet Ring	1	″			—		78-4	
	47	Turret (Auxiliary)								
	48	**GROUP 79—STEAM PIPES & TEE HEADS**								
0	49	STEAM PIPES	1	792B5019	4" PIPE		—			
0	50	“ “ Slip Joint	1	792B5040			79-90			
0	51	“ “ “ “ Gland	1	″			79-91			
0	52	“ “ Elbow	1	792A5024			79-632			
0	53	“ “ “ Support	1	792B5027		792B5027	—			
	54	“ “ Tee Head	—							
0	55	“ “ Joint Ring ~~Top~~	1	792S5029		—	79-12	—	—	—
0	56	“ “ “ “ ~~Bottom~~	1	792A5053		—	79-31	—	—	—
	57	“ “ “ “	—							
	58	“ “ “ “ Gland	—							
0	59	“ “ Casing	1 Pr	B-12151		—	79-92	—	—	—
	60	“ “ Flange	—							
	61	“ “ Nipple	—							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81—SUPERHEATER								
✓	1	Superheater Arrangement	1 SET	81M.D.5009-A	PURCHASED COMPLETE					
✓	2	“ Header	1	813C5019	〃					
✓	3	“ “ Support	1 PR.	812A5012		812A5012				
	4	“ “ “								
	5	“ Return Bends								
	6	“ “ “								
	7	“ Tube End								
	8	“ “ Joint								
	9	“ “ Clamp								
	10	“ “ “ Washer								
	11	“ “ “ Bolt								
	12	“ “ “ “ Washer								
	13	“ “ Support								
	14	“ “ Bands								
	15	“ Unit								
	16	“ Damper								
	17	“ “ Cyl.								
	18	“ “ “ Arm								
	19	“ “ “ Support								
	20	“ “ Arm								
	21	“ “ Rod								
	22	“ “ Shaft								
	23	“ “ “								
	24	“ “ “ Bearing								
	25	“ “ “ “								
	26	“ “ “ “								
	27	“ “ “ “								
	28	“ “ “ Link								
	29	“ “ Counterweight								
	30	“ “ “ Arm								
	31	“ “ Hinge								
	32	“ “ Flag								
✓	33	“ Deflector Handle	4	752A79		75A139				
✓	34	“ “ Clamp	4	812B51		3/4 x 2 1/4" x 4				
✓	35	“ “ Plate Stud	6	812A51		812A51				
	36	**GROUP 82—TANK VALVES**								
✓	37	TANK Valve—Water	2	823A5006			—		82-22	
✓	38	“ “ Body	2	〃			82-23			
✓	39	“ “ “ Plate	2	〃			82-19			
✓	40	“ “ Bottom Plate	2	〃			82-20			
✓	41	“ “ Top “	2	〃			82-18			
✓	42	“ “ Cap	2	〃			82-16			
✓	43	“ “ Seat	2	〃			—		82-21	
✓	44	“ “ Stem	2	A-15147 STYLE 1		151F2	—			
✓	45	“ “ “ Nut	2	823A5006			82-17			
✓	46	“ “ “ Handle	2	〃			82-14			
✓	47	“ “ “ Clamp Nut	2	〃			82-15			
✓	48	“ “ Strainer	2	〃			—			
	49	Siphon Arrangement	—							
✓	50	Siphon	1	822A5000			82-83			
✓	51	“ Tube	1	〃			82-30			
✓	52	“ ~~Pipe Flange~~ BRACKET	1 SET	822D5004	PLATE		—			
	53	“ Goose Neck								
	54	“ Stand Pipe								
	55	“ “ “ Flange								
	56	“ “ “ “								
	57	“ Hose Strainer								
✓	58	“ “ “ Body	1	15142 LINE 1			82-24			
✓	59	“ “ “ Cap	1	〃			82-25			
✓	60	“ “ Nipple	2	11329 LINE 4	4" PIPE		—			
✓	61	“ “ Bracket	5			113F15	—			

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
✓	1	Tank Valve—Oil ✓	1	822A5029			—		82-53	
✓	2	" " Seat ✓	1	"			82-54			
✓	3	" " Cap Plate ✓	1	"			82-55			
✓	4	" " Plate ✓	~~2~~ 1	"			82-56			
✓	5	" " Rod ✓	1	"	LENGTH TO SUIT ERECT. SHOP 151F55					
✓	6	" " Screen ✓	1	"						
✓	7	" " Nut ✓	1	"						
✓	8	" " Flange ✓	1	11305 SET 1						
✓	9	" " Lever ✓	1	B-15113			82-39			
✓	10	" " Stem ✓	1	B-15115 LINE 8	5/8" x 47"	151F25				
✓	11	" " " End ✓	1	822A5022	STICK BRASS					
✓	12	" " " Stuffing Box ✓	1	A-15171	STICK BRASS					
✓	13	" " " " " Nut ✓	1	"					82-58	
✓	14	" " " " " Gland ✓	1	"					82-57	
✓	15	" " " " " Follower ✓	1	"	STICK BRASS				82-60	
✓	16	" Cock	~~1~~	~~1¼" STOP COCK~~					—	
	17	" Cooler Cock	—							
✓	18	Tank Measuring Rod	1	823E5001		3/8" x 1" x 83½"	—			
✓	19	" " " Flange	1	A-15130			82-132			
✓	20	" " " Handle	1	"			82-133			
✓	21	" " " Guard	1	"	30" x 1¼" PIPE		—			
✓	22	" " " "	1	"	15" x 1¼" "		—			
	23									
	24	**GROUP 83—TANK—ENGINE**								
✓	25	Fuel Bunk	1	833A5007	PLATE	—	—	—	—	—
	26	" " Rack								
	27	" " Tie Rod								
	28	" " Straps								
✓	29	" " Lugs	4	833A5007			—	—	—	—
	30	" " Gate	—							
	31									
	32									
	33	**GROUP 85—TENDER FRAME**								
✓	34	Tender Frame	1	854A5005		—				
✓	35	" " Angle	6	"		½" x 6" x 6" x 7½" LONG				
✓	36	" " "	4	"		½" x 3½" x 6" x 7½" "				
✓	37	" " "	2	"		½" x 3" x 5" x 10⅜" "				
✓	38	" " "	18	"		½" x 3½" x 3½" x 7½" "				
✓	39	" " Bolster—Top	2	"		½" x 3" x 3" x 15⅜"				
	40	" " " —Bot.	—							
✓	41	" " Brace TO DRAWHEAD	2	16⅜ x 15⅜ x ⅝ PLATE		—	—	—	—	—
	42	" " "	—							
	43	" " "	—							
✓	44	Frame Centre Plate	1	482F5111				48-656		
✓	45	" End Casting	1	853B5002				85-20		
✓	46	" " Timber Brace	2	11025 SET 10				48-22		
✓	47	" Side Bearings	2	9671 SET 8			48-152	—		
	48	**GROUP 87—TENDER DECK, TOOL BOX**								
	49	Tool Box								
✓	50	OIL HEATER PIPE BUSHING	1	882A5019	STICK BRASS	—	—	—	—	—
	51	**GROUP 88—TENDER TANK**								
✓	52	Tank—Water	1	883D5006						
✓	53	" Material Bill	1 SET	~~88~~M.D. 5003						
✓	54	" Funnel	1	882C5018	PLATE					
✓	55	" " Lid	1	"	"					
✓	56	" " " ~~Hinge~~ RING	2	"		151F97				
✓	57	" " Handle	1	"		151F98				
✓	58	" " ~~Hinge Lug~~ RING	2	"		151F96				
✓	59	" " ~~Pin~~ "	2	"		—				
✓	60	" " Angle	~~—~~1	"		88A5001				
✓	61	" Lug	4	882D5016		882D5016				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal Iron
		GROUP 88—TENDER TANK (Cont.)								
✓	1	Tank—Headlight Bracket	1 PR.	883 D 5006		100 F 10	—	—	—	—
✓	2	" —Ladder	1 PR.	A-15103	1-RIGHT. 1-LEFT	151-F-20	—	—	—	—
	3	" "	—							
✓	4	" ~~—Coal Gate~~ STRAINER RING	1	882 B 5017		88 B 5009	—	—	—	—
✓	5	" ~~—Fuel Rack~~ "	1	"	#12 B.W.G. $2\frac{1}{2}$ x $2\frac{1}{2}$ MESH.					
✓	6	" —Shoveling Sheet	1	$\frac{3}{16}$" x $55\frac{1}{2}$" x $121\frac{1}{2}$"	TANK STEEL	—	—	—	—	—
	7	" " "	—							
✓	8	Tank—Oil	1	883 C 5047						
✓	9	" Material Bill	1 SET	88 M.D. 5059						
✓	10	" Funnel	1	B-15108 LINE 2						
✓	11	" " Cover	1	"	PLATE					
✓	12	" " " Eye Bolts	2	"		470 S 143				
✓	13	" " " Tail Nuts	2	"		470 S 13				
✓	14	" " " Handle	1	"		151 F 98				
✓	15	" " Lug	2	"		470 S 144				
✓	16	" " "	1	"		470 S 145				
✓	17	" " Ring	1	"		151 F 110				
✓	18	" " Angle	1	"		151 F 105				
✓	19	" Lug	2	"		151 F 60				
✓	20	" "	2	882 A 5007		882 A 5007				
	21	**GROUP 91—THROTTLE & DRY PIPE**								
✓	22	Throttle Arrangement	1	913 C 5013			—			
✓	23	Throttle Valve	1	912 A 5079			91-7			
✓	24	" Case	1	B-12139 LINE 3			91-147-B			
✓	25	" Valve Stem	1	912 L 5057		912 L 5057	—			
✓	26	" " " Stop	1	B-12158 LINE 3		B-12158 LINE 3	—			
	27	" Pipe Elbow								
	28	" Pipe Flange								
	29	" " Joint Ring								
✓	30	" Bell Crank	1	B-12143		B-12143	—	—	—	—
	31	" " " Fulcrum	—							
	32	" Pipe Support	—							
✓	33	" " Yoke	1	913 C 5013		91 C 5012	—	—	—	—
✓	34	" " Bracket	1	"		121 F 110	—	—	—	—
	35	" " "	—							
✓	36	" Stuffing Box	1	912 A 5050		—	91-14	—	—	—
✓	37	" " " Gland	1	"		—	91-15	—	—	—
	38	" " " Flange								
	39	" Baffle Plate								
	40	" " "								
	41	" " " Handle								
	42	" " " Angle								
	43	" " " Studs								
	44	" " " Nuts								
	45	" " " Keys								
✓	46	THROTTLE LEVER	1	913 A 5018		121 F 70			—	
✓	47	Throttle Lever Handle	1	682 D 173		—			68-3A	
✓	48	" " Latch	1	913 A 5018		$1\frac{1}{4}$" x $2\frac{1}{2}$" x $5\frac{1}{4}$"				
✓	49	" " " Rod	1	"		121 F 168				
✓	50	" " Links	2	"		121 F 136		—		
✓	51	" " Quadrant	1	"		—		91-21		
✓	52	" " Fulcrum	1	B-12103 LINE 2		91 B 5030				
	53	" " Guide	—							
✓	54	" " Rod	1	913 A 5018		121 F 122				
✓	55	" " Support	1	—		121 F 75				
✓	56	DRY PIPE	1	912 D 5086	$4\frac{1}{2}$" PIPE	—	—			
✓	57	" " Ring	1	"		—	91-150			
✓	58	" " Support	1	912 A 5033		91 A 5013	—			
✓	59	" " " JOINT RING	1	"		91 A 5014	—			
✓	60	" " ~~Yoke~~ " "	1 1	792 H 5053 792 H 5029		—	79-40 79-21			
✓	61	" " Elbow	1	912 D 5086		—	91-401			

2x28

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS								
	1	Brake Shoes								
	2	Chisel—Cape								
	3	" —Flat								
	4	Hammer—Soft			Wood Handle					
	5	Jack Screw								
	6	" " Cap								
	7	" " Base								
	8	" " Collar								
	9	" "								
	10	" " Cap								
	11	" " Base								
	12	" " Collar								
	13	Journal Brass Rod								
	14	Packing Hook								
	15	" Spade								
	16	Pinch Bar								
	17	Jack Bar								
	18	Torch								
	19	" Cap								
	20	" Nozzle								
	21	Valve Tram								
0	22	Wrench List	1 SET	92M.05009-B						
	23	Ash Hoe	—							
	24	" " Handle	—							
0	25	~~Clinker Hook~~ TOOL EQUIPMENT	1 SET	923A5004						
	26	Poker	—							
0	27	Wrecking Frogs	X1	923A5000		—	—	92-9	—	—
0	28	~~Grease~~ " "	1	923A5001		—	—	92-10	—	—
	29	Oil	—							
	30	**GROUP 93—TRUCKS & DETAILS**								
0	31	TRUCK Plan	3	937A5030	✓					
0	32	" Bolster	2 SET	933A5058	✓					
0	33	" " ~~End Casting—R.~~	1 "	933D5058	✓					
	34	" " " " —L.	—							
0	35	" " " Separator	6	932A5300	✓	—	—	93-163 ✓	—	—
0	36	" " Spring Centers	120	A-9548	✓	—	93-53	—	—	—
	37	" "								
	38	" "								
	39	" " Brake Rod Roller								
	40	" " " " " Brkt.								
	41	" " " Lever Guide								
	42	" " " " "								
0	43	" Center Plate	3	932A5415	✓		—	93-133		
0	44	" Side Bearing Base	6	932A5250	✓		93-6	—		
0	45	" " " Block	4 2	932J5404 932L5404			93-81	—		
0	46	" Frame RIGHT CENTER FRONT & REAR	1 2	933C5057 933B5057	✓ Line up cards for		93-81	93-678 ✓		
0	47	" " LEFT	3	933B5059	✓ DRILLING STYLE 4 9-4-29 D.T.			93-678		
0	48	" " Splice	3	"	✓	FIN. SIZES 1½" x 3½" x 18"		93-681 ✓		
	49	" " "						—		
	50	" Right Arch Bar								
	51	" Left Arch Bar								
	52	" Right Inverted Arch Bar								
	53	" Left Inverted Arch Bar								
0	54	" Bottom Tie Bar RIGHT	3	932C5405	✓	932C5405	—	—	—	—
0	55	" " " " LEFT	3	932B5406	✓	932B5406	—	—	—	—
	56	" " " " Angle								
	57	" " " " "								
	58	" " " Fill. Block								
	59	" Column—Right								
	60	" " —Left								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 93—TRUCKS & DETAILS (Cont.)								
a	1	Truck Crosstie Bar—Top	3	932A5311	✓	932A5311				
a	2	“ “ “ “	3	932B5311	✓	932B5311				
a	3	“ “ “ “ Angles	3	932A5311	✓ ½"×4"×4"-74⅜" LONG	—				
a	4	“ “ “ “ “	3	932B5311	✓ ½"×4"×4"-74⅜" "	—				
0	5	“ “ “ —Bottom	6	932K5367	✓	932K5367				
	6	“ “ “ “	—							
	7	“ “ “ “ Fill Block	—		Reamed after	Bolt Crossties 9-4-29 D.T.				
g	8	“ “ “ —Center	3	932C5189	✓932A5563	932C5189				
g	9	“ “ “ “	3	932D5189	✓932B5563	932D5189				
0	10	“ Diagonal Braces	6 Pr	937A5030	✓	93E5000				
	11	“ “ “								
	12	“ “ “								
	13	“ “ “				(Smith Shop To Alter Equalizer To Suit Line "B"				
0	14	“ Equalizer	3	932~~A~~B5191	MADE IN SMITH SHOP WHEN CHANGED	932~~A~~B5191				
0	15	“ Gear Cover	3	932C5409	✓ PLATE					
0	16	“ “ “	3	932B5409	✓ "					
0	17	“ “ “	3	932A5410	✓ "					
a	18	“ “ “	3	932C5410	✓ "					
a	19	“ “ “ Bracket	6	932A5408		932A5408				
g	20	“ “ “ “	6	932B5408		932B5408				
0	21	“ “ “ “ GUIDE	12	932A5260		932A5260				
	22	“ “ “ “	—							
	23	“	—							
0	24	“ King Bolt	3	10153 SET #5 ✓		10153 SET #5	—	—	—	—
d	25	“ “ “ Key	3	" " 4		" " 4				
a	26	“ Safety Chain—To Frame	2	932C5178	✓	932C5178				
a	27	“ “ “ “ “	1	932B5178	✓	932B5178				
0	28	" " " " "	1	932K5178	✓	932K5178				
0	29	" " " " "	2	932A5178	✓	932A5178				
	30									
0	31	TRUCK BOX—Right	6	933A5056	✓	—	—	93-682 ✓	—	—
	32	“ “ “								
	33	“ “ “								
	34	“ “ “								
a	35	“ “ Cap—Right	6	932A5181	✓	—	93-661	—	—	—
	36	“ “ “ “								
	37	“ “ “ “								
	38	“ “ “ “								
g	39	“ Pedestal	6	933A5055	✓	—	—	93-674 ✓	—	—
a	40	“ “ Cap	6	932A5175	✓	—	93-677			
a	41	“ “ “ Shim	~~8~~12	"		⅛"×1¾"×9½"	—			
0	42	“ “ “ “	24	"		$\frac{1}{16}$"×1¾"×9½"	—			
0	43	“ “ “ “	12	"		¼"×1¾"×9½"				
	44	“ “ “ “		HCHi ordered 932-A-5174		6/39				
a	45	“ Box—Inside	6	932~~A~~B5174	✓ 932-A5173- 2-4-42	—	—	93-676-A	—	—
a ✓	46	“ “ Cap—Inside	6	932~~A~~D5173		—	93-675	—	—	—
	47	“ Inside Box Spring Center	—							
a	48	“ “ Thrust Plate	6	932D5481	✓	—	—	—	93-24	—
d	49	“ Journal Brass	13	932A5182	SENT 2- R.20038- ✓8-5-1946-H.C.K.	—	—	—	93-679	—
	50	“ “ “ Wedge	—							
g	51	" INSIDE BOX SHIMS	18 ~~18~~ 18	932B5446	PLATE	⅛" THICK				
g	52	" " " "	12 ~~24~~ 12	"		$\frac{1}{16}$" "				
a	53	" " " "	~~24~~	~~"~~		~~¼"~~ ~~"~~				
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	CASTINGS—PATTERN NUMBERS Cast Steel	CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal. Iron
		GROUP 94—VALVES—DISTRIBUTION		(ALL ITEMS IN RED ARE FOR PISTON VALVE CYLS. 10-39)						
	1	Piston Valve	3	943-A-5006	PUR. FROM HAMMET					
	2	" " Follower								
	3	" " T-Ring								
	4	" " Snap Ring								
0	5	Slide Valve	~~3~~	~~942A5030~~		—	~~94-24~~	—	—	—
0	6	" " Plate	~~3~~	~~"~~		—	~~94-25~~	—	—	—
	7	" " Packing Strip	—							
	8	" " " "	—							
0	9	" " Ring—Mat'l For	~~3~~	~~653L5001~~	Pot Pattern	—	~~65-91~~	—	—	—
0	10	" " Spring	~~3~~	~~762A5009~~						
0	11	VALVE STEM UNIVERSAL JOINT	1	7151 LINE 2		71 F 10	—	—	—	—
0	12	" " " " JAW " " " " " KNUCKLE	1 1	" " " "	BAR STOCK " "	—	—	—	—	—
	13	VALVE STEM	3	942-B-5092	1 3/16" x 32 13/32" FIN.					
0	14	" " Crosshead	2R 1L 3	942-A-5096 ~~942A5043~~			~~94-A~~	94-388		
0	15	" " " Guide	3	942A5032			94-9			
0	16	" " " " Plate	6	"			94-10			
	17	" " " Gibs								
	18									
0	19	VALVE YOKE	~~3~~	~~942B5060~~		~~76F25~~	—	—	—	—
	20	" " Block	—							
0	21	" " Key	3 ~~3~~	8006 SET #2 ~~8006 SET 2~~	CHROME VANADIUM	—	—	—	—	—
0	22	VALVE STEM PACKING	2 LB'S.	VULLCABESTON	C.C. PACKING	DIA. OF VALVE STEM 1 3/16"	DIA. OF STUFFING	BOX INSIDE 2 1/4"	FOR SUPER ENG'S,	JOHNS PRATT CO.
	23	Packing Rings								
	24	" Spring Washer								
	25	" Swab Cup								
	26	" Vibrating Cup								
	27	" Follower								
0	28	" Stuffing Box	3	652A5116		—	65-463	—	—	—
0	29	" " " Gland	3	"		—	65-464	—	—	—
	30	" Spring	—							
	31	" Studs, Valve Stem	—							
	32									
	33	**GROUP 95—WHEELS AND TIRES**								
0	34	Wheel	12	953M5020		—	95-346	—	—	—
0	35	Tire	12	952A5013	SEC. #18	—	—	—	—	—
	36	Hub Plate								
	37									
	38									
	39	**GROUP 96—WHISTLE AND RIGGING**								
0	40	WHISTLE	1	5" C.I. CHIME	PURC. 963 A 5000					
	41	" Bowl								
	42	" Bell								
	43	" Valve								
	44	" Gland								
	45	" Nut								
	46	" Diaphragm								
0	47	" Lever	1	962A5010		962A5010	—	—	—	—
	48	" Elbow	—							
	49	" Rigging	—							
0	50	WHISTLE Hand Lever	1	A-11149		111 F 10	—	—	—	—
	51	" " " Fulcrum	—							
	52	" Rod	—							
0	53	" Bell Crank	1	A-11149		111-F-11				
0	54	" Rod Thimble	[illegible]	[illegible]	[illegible]	—				
0	55	" " " Washer	[illegible]	"		—				
	56									
	57	**GROUP 99—MISCELLANEOUS**								
	58	SPEED RECORDER RIGGING								
	59									
	60									
	61									

CLASSIFICATION OF DRAWINGS

GEARED LOCOMOTIVE

Group No.	TITLE
10	Ash Pan and Oil Pan
11	Axles
12	Bell and Ringer
	Blow-off Cock—See 26
	Blower Pipe Elbow—See 63
13	Boilers
14	Boiler Details and Attachments—Tubes and Flues.
	Boiler Checks—See 55
15	Bolts and Nuts, Studs, Pins and Bushings
	Boxes, Shay Engines—See 93
18	Brackets, Air and Steam Gauge Brackets, Shay Cylinder, Steam and Cylinder Bottom Brackets
20	Brake Equipment, Foundation, All Brake Equipment, Engine and Tender
	Brick Arch—See 45
21	Bumpers and Details
	By-pass Valve—See 34
22	Cabs
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc.
	Cab Handle—See 53
	Cab Lamp—See 54
	Cab Tool Box—See 23
	Cab Turret—See 78
	Chafing Plate—See 48
	Cinder Valve and Pipe—See 75
	Clearances—See 98
	Coal Pusher—See 88
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves
27	Cocks and Valves, Gauge, Water and Special
28	Cock Rigging
	Connecting Rods—See 72
	Coupler, Engine—See 37
	Coupler, Tender—See 37
29	Crank Pins and Details
30	Crossheads, Arm, Pin, Key and Shoes
	Crossties—See 48
31	Cylinders and Barrel Bushings
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings
34	Cylinder By-pass, Relief, Vacuum and Drifting Valves
35	Die Work—Flanging Dies
36	Dome—Cap, Casing and Ring
37	Draw-Gear, Engine, Coupler, Uncoupling Rigging Front Buffers, Drawbars, Safety Chains and Bars
	All Drawgears F and B
	Drawgear, Tender—See 37
	Draft Pipe—See 75
	Dry Pipe—See 91
39	Eccentrics, Cranks, Straps and Rods
	Engine Truck—See 93
42	Erecting Cards—Elevations
43	Erecting Cards—Cross Sections
44	Exhaust Pipe and Nozzles
	Expansion Pad, Knee and Plate—See 48
	Feed Water Attachments—See 55
45	Fire Door, Fire Brick and Tubes, Smoke Consumer
	Fire Box Ring—See 14
	Fire Extinguisher—See 64
48	Frames and Details
49	Gauges, Templates and Jigs
50	Guides, Yoke and End
51	Grate Arrangement
52	Grate Details
	Hand Holes—See 66
53	Hand Rail and Steps, Engine and Tender
54	Headlights and Signal Attachments, Lamps, Electric Wiring, Builders License and Number Plates
55	Injectors, Boiler Checks and Strainers
	Keys—See 15
57	Lagging and Jacket
	Lamps—See 54
58	Link Motion
	Mud Drum—See 14
	Number Plates—See 54
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator
60	Oil Burning Attachments—Engine
	Oil Burning Attachments, Tender—See 82
61	Painting, Lettering and Numbering—Photo
62	Pilot and Snow Plows
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings
64	Piping Arrangements, Engine and Tender, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping
65	Piston and Rod, Extensions, Rod Packing
66	Plugs, Hand Holes and Washout
	Push Pole Pocket—See 21
68	Reverse Lever, Screw and Pneumatic Gears
69	Reverse Shaft and Reach Rod
70	Rocker and Box
71	Running Boards & Brackets, Side and Deck Sheets
72	Rods—Connecting and Stubs
	Safety Valves—See 78
73	Sand Box, Sanders and Rigging
	Side Sheet, Cab—See 71
	Signal Attachments—See 54
74	Shafts—Crank, Line, Square, Crank, Counterbalance, Couplings, Brasses, Pinions, Gears, etc.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces
	Smoke Consumer—See 45
	Speed Recorder—See 99
76	Springs
	Sprinkler—See 64
	Steam Chests—See 32
78	Steam Gauge, Safety Valve and Turrets
	Steam Heat—See 64
79	Steam Pipes and Tee Heads
	Steps—See 53
80	Stoker and Details, Engine and Tender
81	Superheater, Header and Details
	Superheater Flues—See 14
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose
85	Tender Frames
87	Tender Deck, Tool Box
88	Tender Tank—Water and Oil, Filling Hole, Tank Funnel, Coal Gate, Coal Pusher
	Tender Truck—Shay Engines—See 93
91	Throttle and Dry Pipe—Lever, Supports, Sleeves
	Tires—See 95
	Tool Boxes, Engine—See 23
	Tool Boxes, Tender—See 87
92	Tools
93	Trucks and Details, Shay Engine, including Boxes and Bearings
	Tube Setting—See 14
	Turret, Safety Valve—See 78
	Turret, Air—See 20
94	Valves, Distribution—Stems, Rods, Valve Rod Crosshead and Packing
	Valve Rod Crosshead Guide—See 94
	Waist Sheets—See 48
95	Wheels and Tires—Driving Engine, Truck, Trailing, Tender Wheels
96	Whistle and Rigging
97	Preliminary Designs and Propositions
98	Clearance and Wheel Base Diagrams
99	Miscellaneous

Material Specifications

ENG. FRAME Alt. & New Line Added.
New Line ON Boiler
" " " FRONT END TIMBER ARRG'T.
" " " RUN BOARD
" " " " " Bracket. (Rizer)
" OIL BURNING ARRGT
" LINE ON OIL HEATER
" " " " COCK SHAFT.
" LAGGING MAT. ORDER
" LINE ON ERECT. PLAN.